

FILE NO.

SERVICE MANUAL

Remote Control Plasma Color Television

DP42545 (U.S.A.)
(CANADA)

ORIGINAL VERSION



Chassis No. 42545-00

NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.

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Specifications

Power Rating	120VAC
	300W, 3.5A (Max)
Antenna Input Impedance	75Ω
	UHF/VHF/CATV
	Digital
Receiving Channel	2 - 13 (VHF),
	14 - 69 (UHF),
	01, 14-94, 95-125 (CATV)
	1-99 (Digital)
Remote Ready	32 Key Remote Control
Sound Output	5.0 W/CH
Intermediate Frequency	
Picture IF Carrier	45.75MHz
Sound IF Carrier	41.25MHz
Color Sub Carrier	42.17MHz
Cabinet Dimensions	
Width	1206mm
Height	716mm
Depth including base	249mm

SAFETY INSTRUCTIONS

SAFETY PRECAUTIONS

WARNING: The chassis of this receiver has a floating ground with the potential of one half the AC line voltage in respect to earth ground. Service should not be attempted by anyone not familiar with the precautions necessary when working on this type of equipment.

The following precautions must be observed:

1. An isolation transformer must be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Comply with all caution and safety-related notes provided inside the cabinet, on the chassis, and on the back.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as control knobs, adjustment covers, shields and barriers.

DO NOT OPERATE THIS TELEVISION RECEIVER WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PROPERLY SECURED.

4. Before replacing the back cover of the set, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

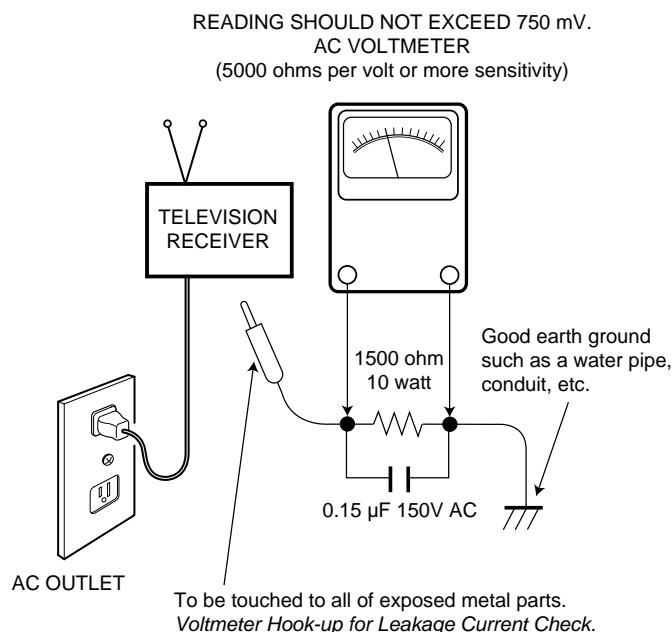
Before returning any television to the customer, the service technician must perform the following safety checks to be sure that the unit is completely safe to operate without danger of electrical shock.

ANTENNA COLD CHECK

Remove AC plug from the 120 VAC outlet and place a jumper across the two blades. Connect one lead of an ohmmeter to the jumpered AC plug, and touch the other lead to each exposed antenna terminal (UHF and VHF antenna terminals). The resistance must measure between 1M ohm and 5.2M ohm. Any resistance value below or above this range indicates an abnormality which requires corrective action.

PRODUCT SAFETY NOTICE

When replacing components in a receiver, always keep in mind the necessary product safety precautions. Pay special attention to the replacement of components marked with a star (★) in the parts list and in the schematic diagrams. To ensure safe product operation, it is necessary to replace those components with the exact same PARTS.



LEAKAGE CURRENT CHECK

Plug the AC line cord directly into a 120 VAC outlet. (Do not use an isolation transformer for this check.) Use an AC voltmeter, that has 5000 ohms per volt or more sensitivity. Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15 µF 150 VAC capacitor, between a known good earth ground (water pipe, conduit, etc.) and all exposed metal parts of the cabinet (antennas, handle bracket, metal cabinet, screw heads, metal overlays, control shafts, etc.). Measure the AC voltage across the 1500 ohm resistor. The AC voltage should not exceed 750 mV. A reading exceeding 750 mV indicates that a dangerous potential exists. The fault must be located and corrected. Repeat the above test with the receiver power plug reversed.

NEVER RETURN A RECEIVER TO THE CUSTOMER WITHOUT TAKING THE NECESSARY CORRECTIVE ACTION.

SERVICE ADJUSTMENTS

GENERAL

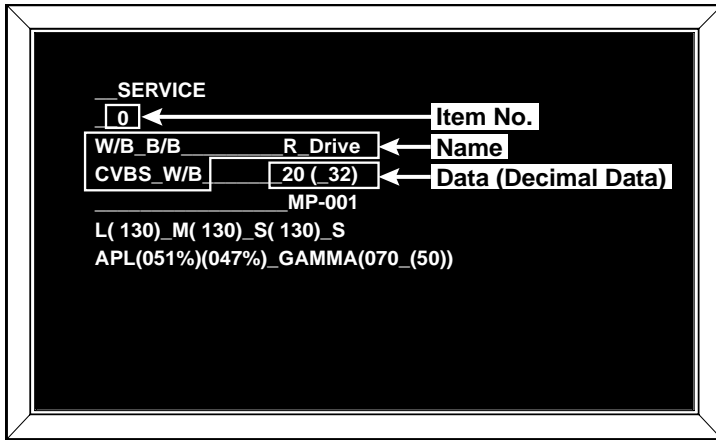
This set has an On-screen Service Menu system included in the CPU that allows remote operation for most of the service adjustments.

ON-SCREEN SERVICE MENU SYSTEM

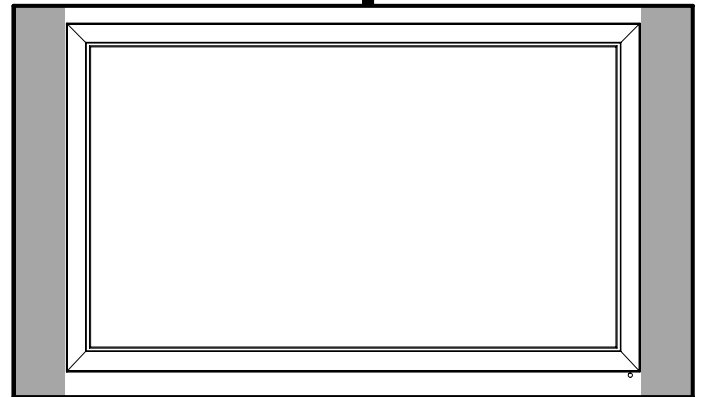
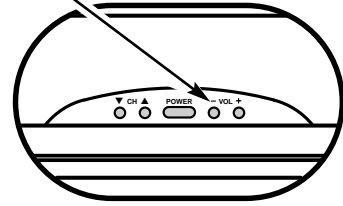
1. Enter the Service Menu:

- While pressing the Volume (-) button on the television, press the Number Key 1 on the remote control unit. The Service Menu will now appear.

Service Menu Display



Volume - : Enter Service Menu



2. Service Adjustments:

- Press the **Menu** ▲ or ▼ key to select the desired service menu item you want to adjust. See page 4 for the On-screen Service Menu.

Note: Press the **CH** ▲ or ▼ key to skip up or down 10 items.

- Use the **Menu** < or > key to adjust the data. The < or > keys will increase or decrease the data sequentially.

3. Exit from the Service Menu:

- Press the **MENU** key to turn off the Service Menu display.

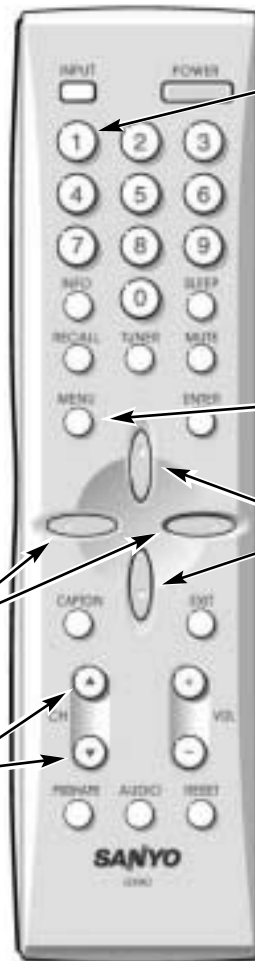
**Number 1:
Enter Service Menu**

**Menu:
Exit Service Menu**

▲ ▼ : Select Item

**< > :
Adjust Service Data**

**CH ▲ ▼ :
Skip 10 items**



ON-SCREEN SERVICE MENU

No.	Name	Initial Data	Note
000	CVBS/S_W/B__R Drive	20h	White Balance Adjustment (R), Composite/S Video
001	CVBS/S_W/B__G Drive	20h	White Balance Adjustment (G), Composite/S Video
002	CVBS/S_W/B__B Drive	20h	White Balance Adjustment (B), Composite/S Video
003	CVBS/S_B/B__R Cutoff	03h	Black Balance Adjustment (R), Composite/S Video
004	CVBS/S_B/B__G Cutoff	03h	Black Balance Adjustment (G), Composite/S Video
005	CVBS/S_B/B__B Cutoff	03h	Black Balance Adjustment (B), Composite/S Video
006	RF_W/B__R Drive	80h	W/B Adjustment (R), RF, Differential Data from CVBS/S
007	RF_W/B__G Drive	80h	W/B Adjustment (G), RF, Differential Data from CVBS/S
008	RF_W/B__B Drive	80h	W/B Adjustment (B), RF, Differential Data from CVBS/S
009	RF_B/B__R Cutoff	80h	B/B Adjustment (R), RF, Differential Data from CVBS/S
010	RF_B/B__G Cutoff	80h	B/B Adjustment (G), RF, Differential Data from CVBS/S
011	RF_B/B__B Cutoff	80h	B/B Adjustment (B), RF, Differential Data from CVBS/S
012	D1/D2_W/B__R Drive	80h	W/B Adjustment (R), D1/D2, Differential Data from CVBS/S
013	D1/D2_W/B__G Drive	80h	W/B Adjustment (G), D1/D2, Differential Data from CVBS/S
014	D1/D2_W/B__B Drive	80h	W/B Adjustment (B), D1/D2, Differential Data from CVBS/S
015	D1/D2_B/B__R Cutoff	80h	B/B Adjustment (R), D1/D2, Differential Data from CVBS/S
016	D1/D2_B/B__G Cutoff	80h	B/B Adjustment (G), D1/D2, Differential Data from CVBS/S
017	D1/D2_B/B__B Cutoff	80h	B/B Adjustment (B), D1/D2, Differential Data from CVBS/S
018	D3/D4_W/B__R Drive	80h	W/B Adjustment (R), D3/D4, Differential Data from CVBS/S
019	D3/D4_W/B__G Drive	80h	W/B Adjustment (G), D3/D4, Differential Data from CVBS/S
020	D3/D4_W/B__B Drive	80h	W/B Adjustment (B), D3/D4, Differential Data from CVBS/S
021	D3/D4_B/B__R Cutoff	80h	B/B Adjustment (R), D3/D4, Differential Data from CVBS/S
022	D3/D4_B/B__G Cutoff	80h	B/B Adjustment (G), D3/D4, Differential Data from CVBS/S
023	D3/D4_B/B__B Cutoff	80h	B/B Adjustment (B), D3/D4, Differential Data from CVBS/S
024	DIGITAL_W/B__R Drive	80h	W/B Adjustment (R), Digital, Differential Data from CVBS/S
025	DIGITAL_W/B__G Drive	80h	W/B Adjustment (G), Digital, Differential Data from CVBS/S
026	DIGITAL_W/B__B Drive	80h	W/B Adjustment (B), Digital, Differential Data from CVBS/S
027	DIGITAL_B/B__R Cutoff	80h	B/B Adjustment (R), Digital, Differential Data from CVBS/S
028	DIGITAL_B/B__G Cutoff	80h	B/B Adjustment (G), Digital, Differential Data from CVBS/S
029	DIGITAL_B/B__B Cutoff	80h	B/B Adjustment (B), Digital, Differential Data from CVBS/S
030	Mode_Mode-1	0Ah	Bank_2 Setting
031	Mode_Mode-2A	03h	Bank_2 Setting
032	Mode_Mode-2B	0Fh	Bank_2 Setting
033	Mode_Mode-3A	06h	Bank_2 Setting
034	Mode_Mode-3B	00h	Bank_2 Setting
035	Sub Image_CVBS/S_Contrast	22h	
036	Sub Image_CVBS/S_Bright	6Ah	
037	Sub Image_CVBS/S_Color	58h	
038	Sub Image_CVBS/S_Tint	40h	
039	Sub Image_CVBS/S_H_Sharp	15h	
040	Sub Image_CVBS/S_Sub_Sharp	13h	
041	Sub Image_CVBS/S_H_Detail	00h	
042	Sub Image_CVBS/S_H_Shoot	10h	
043	Sub Image_CVBS/S_H_Coring	05h	
044	Sub Image_CVBS/S_H_PeakF	05h	
045	Sub Image_CVBS/S_V_Sharp	01h	

- All data except in gray box area is fixed. Do not change for correct operation.
- Data in gray box is initial. Can be set according to adjustment information.

No.	Name	Initial Data	Note
046	Sub Image_CVBS/S_V_Coring	02h	
047	Sub Image_CVBS/S_V_Pairing	04h	
048	Sub Image_CVBS/S_V_Vlinsw	01h	
049	Sub Image_CVBS/S_3DYCSH	00h	
050	Sub Image_CVBS/S_Filter_1	03h	
051	Sub Image_CVBS/S_Filter_2	01h	
052	Sub Image_RF_Contrast	22h	
053	Sub Image_RF_Bright	6Ah	
054	Sub Image_RF_Color	58h	
055	Sub Image_RF_Tint	40h	
056	Sub Image_RF_H_Sharp	15h	
057	Sub Image_RF_Sub_Sharp	13h	
058	Sub Image_RF_H_Detail	00h	
059	Sub Image_RF_H_Shoot	10h	
060	Sub Image_RF_H_Coring	05h	
061	Sub Image_RF_H_PeakF	05h	
062	Sub Image_RF_V_Sharp	03h	
063	Sub Image_RF_V_Coring	02h	
064	Sub Image_RF_V_Pairing	04h	
065	Sub Image_RF_V_Vlinsw	01h	
066	Sub Image_RF_3DYCSH	00h	
067	Sub Image_RF_Filter_1	03h	
068	Sub Image_RF_Filter_2	01h	
069	Sub Image_D1_Contrast	23h	
070	Sub Image_D1_Bright	6Ah	
071	Sub Image_D1_Color	3Dh	
072	Sub Image_D1_Tint	40h	
073	Sub Image_D1_H_Sharp	0Fh	
074	Sub Image_D1_Sub_Sharp	10h	
075	Sub Image_D1_H_Detail	00h	
076	Sub Image_D1_H_Shoot	10h	
077	Sub Image_D1_H_Coring	10h	
078	Sub Image_D1_H_PeakF	55h	
079	Sub Image_D1_V_Sharp	01h	
080	Sub Image_D1_V_Coring	02h	
081	Sub Image_D1_V_Pairing	04h	
082	Sub Image_D1_V_Vlinsw	01h	
083	Sub Image_D1_Filter_1	03h	
084	Sub Image_D1_Filter_2	01h	
085	Sub Image_D2_Contrast	24h	
086	Sub Image_D2_Bright	80h	
087	Sub Image_D2_Color	64h	
088	Sub Image_D2_Tint	3Fh	
089	Sub Image_D2_H_Sharp	0Fh	
090	Sub Image_D2_Sub_Sharp	10h	
091	Sub Image_D2_H_Detail	00h	
092	Sub Image_D2_H_Shoot	10h	
093	Sub Image_D2_H_Coring	05h	
094	Sub Image_D2_H_PeakF	55h	
095	Sub Image_D2_V_Sharp	01h	
096	Sub Image_D2_V_Coring	02h	

No.	Name	Initial Data	Note
097	Sub Image_D2_V_Pairing	04h	
098	Sub Image_D2_V_Vlinsw	01h	
099	Sub Image_D2_Filter_1	03h	
100	Sub Image_D2_Filter_2	01h	
101	Sub Image_D3_Contrast	24h	
102	Sub Image_D3_Bright	80h	
103	Sub Image_D3_Color	64h	
104	Sub Image_D3_Tint	3Fh	
105	Sub Image_D3_H_Sharp	0Fh	
106	Sub Image_D3_Sub_Sharp	10h	
107	Sub Image_D3_H_Detail	00h	
108	Sub Image_D3_H_Shoot	10h	
109	Sub Image_D3_H_Coring	05h	
110	Sub Image_D3_H_PeakF	55h	
111	Sub Image_D3_V_Sharp	01h	
112	Sub Image_D3_V_Coring	02h	
113	Sub Image_D3_V_Pairing	04h	
114	Sub Image_D3_V_Vlinsw	01h	
115	Sub Image_D3_Filter_1	03h	
116	Sub Image_D3_Filter_2	01h	
117	Sub Image_D4_Contrast	24h	
118	Sub Image_D4_Bright	80h	
179	Sub Image_D4_Color	64h	
120	Sub Image_D4_Tint	3Fh	
121	Sub Image_D4_H_Sharp	0Fh	
122	Sub Image_D4_Sub_Sharp	10h	
123	Sub Image_D4_H_Detail	00h	
124	Sub Image_D4_H_Shoot	10h	
125	Sub Image_D4_H_Coring	05h	
126	Sub Image_D4_H_PeakF	55h	
127	Sub Image_D4_V_Sharp	01h	
128	Sub Image_D4_V_Coring	02h	
129	Sub Image_D4_V_Pairing	04h	
130	Sub Image_D4_V_Vlinsw	01h	
131	Sub Image_D4_Filter_1	03h	
132	Sub Image_D4_Filter_2	01h	
133	Sub Image_Digital_Contrast	22h	
134	Sub Image_Digital_Bright	77h	
135	Sub Image_Digital_Color	5Ch	
136	Sub Image_Digital_Tint	40h	
137	Sub Image_Digital_H_Sharp	12h	
138	Sub Image_Digital_Sub_Sharp	13h	
139	Sub Image_Digital_H_Detail	00h	
140	Sub Image_Digital_H_Shoot	10h	
141	Sub Image_Digital_H_Coring	00h	
142	Sub Image_Digital_H_PeakF	55h	
143	Sub Image_Digital_V_Sharp	01h	
144	Sub Image_Digital_V_Coring	01h	
145	Sub Image_Digital_V_Pairing	04h	
146	Sub Image_Digital_V_Vlinsw	01h	
147	Sub Image_Digital_Filter_1	03h	

No.	Name	Initial Data	Note
148	Sub Image_Digital_Filter_2	01h	
149	Step_Contrast	03h	Step Number of Contrast
150	Step_Bright	01h	Step Number of Brightness
151	Step_Color	01h	Step Number of Color
152	Step_Tint	01h	Step Number of Tint
153	Step_Sharp	01h	Step Number of Sharpness
154	StaticGamma_Selg1stc	16h	
155	StaticGamma_Selg2stc	16h	
156	B/S_CVBS/S/D1/D2_Start	10h	Black Stretch
157	B/S_CVBS/S/D1/D2_Bapl	02h	Black Stretch
158	B/S_CVBS/S/D1/D2_Area	01h	Black Stretch
159	B/S_CVBS/S/D1/D2_Bpgstp2	01h	Black Stretch
160	B/S_CVBS/S/D1/D2_Bpgstp1	00h	Black Stretch
161	B/S_CVBS/S/D1/D2_Areadet	01h	Black Stretch
162	B/S_CVBS/S/D1/D2_Detlevel	00h	Black Stretch
163	Black Stretch_D3/D4_Start	10h	
164	Black Stretch_D3/D4_Bapl	02h	
165	Black Stretch_D3/D4_Area	01h	
166	Black Stretch_D3/D4_Bpgstp2	01h	
167	Black Stretch_D3/D4_Bpgstp1	00h	
168	Black Stretch_D3/D4_Areadet	01h	
169	Black Stretch_D3/D4_Detlevel	00h	
170	Black Stretch_Digital_Start	10h	
171	Black Stretch_Digital_Bapl	02h	
172	Black Stretch_Digital_Area	01h	
173	Black Stretch_Digital_Bpgstp2	01h	
174	Black Stretch_Digital_Bpgstp1	00h	
175	Black Stretch_Digital_Areadet	01h	
176	Black Stretch_Digital_Detlevel	00h	
177	Black Level Con_Blvcgain	07h	
178	Black Level Con_Blvcfil	01h	
179	Black Level Con_Selbpkp	04h	
180	DC Rest-1_Dcrsw	00h	DC Restoration Setting
181	DC Rest-1_Seldcr	00h	DC Restoration Setting
182	DC Rest-2_Dcrlmt	00h	DC Restoration Setting
183	DC Rest-2_Dcrpnt	00h	DC Restoration Setting
184	APL Gain Setting_Aplgain1	07h	
185	APL Gain Setting_Aplgain2	03h	
186	Dynamic ABL_Selablg	00h	
187	Dynamic ABL_Selabls	00h	
188	Black Peak Gain_Bpggain1	07h	
189	Black Peak Gain_Bpggain2	00h	
190	Dynamic Gamma_Dyglgain	01h	
191	Dynamic Gamma_Dynagain	07h	
192	Flesh_ON_Flssel	01h	Flesh Tone User Setting
193	Flesh_ON_Phase	05h	Flesh Tone User Setting
194	Flesh_OFF_Flssel	00h	Flesh Tone User Setting
195	Flesh_OFF_Phase	00h	Flesh Tone User Setting
196	GREE_Grnsel	01h	Color Management Setting
197	Color Phase_Rphsel	44h	Color Management Setting
198	Color Amplitude_Rampsel	80h	Color Management Setting

No.	Name	Initial Data	Note
199	CTI_Cselfil	01h	CTI Setting
200	CTI_Cselfil	01h	CTI Setting
201	CTI_Selcco	01h	CTI Setting
202	CTI_Selclim	01h	CTI Setting
203	N/H_ON CVBS/S_Venhslice	02h	Noise Hunter Setting (User Setting)
204	N/H_ON CVBS/S_Noise Gain	03h	Noise Hunter Setting (User Setting)
205	N/H_ON CVBS/S_Sharpdown	09h	Noise Hunter Setting (User Setting)
206	N/H_OFF CVBS/S_Venhslice	00h	Noise Hunter Setting (User Setting)
207	N/H_OFF CVBS/S_Noise Gain	00h	Noise Hunter Setting (User Setting)
208	OFFSET_CR OUT_D1	00h	Offset Adjustment, D1
209	OFFSET_CB OUT_D1	00h	Offset Adjustment, D1
210	OFFSET_CR IN_D1	00h	Offset Adjustment, D1
211	OFFSET_CB IN_D1	00h	Offset Adjustment, D1
212	OFFSET_CR OUT_D2	00h	Offset Adjustment, D2
213	OFFSET_CB OUT_D2	00h	Offset Adjustment, D2
214	OFFSET_CR IN_D2	00h	Offset Adjustment, D2
215	OFFSET_CB IN_D2	00h	Offset Adjustment, D2
216	OFFSET_CR OUT_Digital	00h	Offset Adjustment, Digital
217	OFFSET_CB OUT_Digital	00h	Offset Adjustment, Digital
218	OFFSET_CR IN_Digital	01h	Offset Adjustment, Digital
219	OFFSET_CB IN_Digital	01h	Offset Adjustment, Digital
220	Image Menu_Sports_Contrast	3Fh	User Control
221	Image Menu_Sports_Bright	20h	User Control
222	Image Menu_Sports_Color	20h	User Control
223	Image Menu_Sports_Tint	20h	User Control
224	Image Menu_Sports_Sharp	24h	User Control
225	Image Menu_Sports_Bass	28h	User Control
226	Image Menu_Sports_Treble	24h	User Control
227	Image Menu_News_Contrast	34h	User Control
228	Image Menu_News_Bright	20h	User Control
229	Image Menu_News_Color	20h	User Control
230	Image Menu_News_Tint	20h	User Control
231	Image Menu_News_Sharp	20h	User Control
232	Image Menu_News_Bass	20h	User Control
233	Image Menu_News_Treble	20h	User Control
234	Image Menu_Movie_Contrast	1Eh	User Control
235	Image Menu_Movie_Bright	20h	User Control
236	Image Menu_Movie_Color	1Ch	User Control
237	Image Menu_Movie_Tint	20h	User Control
238	Image Menu_Movies_Sharp	17h	User Control
239	Image Menu_Movie_Bass	26h	User Control
240	Image Menu_Movie_Treble	20h	User Control
241	Color Temp_Hi_R MRWBADJ	7Ah	Color Temperature, High (Cool)
242	Color Temp_Hi_G MGWBADJ	7Bh	Color Temperature, High (Cool)
243	Color Temp_Hi_B MBWBADJ	80h	Color Temperature, High (Cool)
244	Color Temp_Mid_R MRWBADJ	80h	Color Temperature, Middle (Normal)
245	Color Temp_Mid_G MGWBADJ	80h	Color Temperature, Middle (Normal)
246	Color Temp_Mid_B MBWBADJ	80h	Color Temperature, Middle (Normal)
247	Color Temp_Low_R MRWBADJ	80h	Color Temperature, Low (Warm)
248	Color Temp_Low_G MGWBADJ	7Bh	Color Temperature, Low (Warm)
249	Color Temp_Low_B MBWBADJ	7Bh	Color Temperature, Low (Warm)

No.	Name	Initial Data	Note
250	PLL Cont_RF_SEPA LVL	00h	PLL Control, RF
251	PLL Cont_RF_HD AMP1	02h	PLL Control, RF
252	PLL Cont_RF_HD GAIN1	0Eh	PLL Control, RF
253	PLL Cont_RF_HD AMP2	04h	PLL Control, RF
254	PLL Cont_RF_HD GAIN2	0Dh	PLL Control, RF
255	PLL Cont_RF_HD AMP3	05h	PLL Control, RF
256	PLL Cont_RF_HD GAIN3	06h	PLL Control, RF
257	PLL Cont_AV_SEPA LVL	00h	PLL Control, AV (CVBS/S)
258	PLL Cont_AV_HD AMP1	02h	PLL Control, AV (CVBS/S)
259	PLL Cont_AV_HD GAIN1	0Eh	PLL Control, AV (CVBS/S)
260	PLL Cont_AV_HD AMP2	04h	PLL Control, AV (CVBS/S)
261	PLL Cont_AV_HD GAIN2	0Dh	PLL Control, AV (CVBS/S)
262	PLL Cont_AV_HD AMP3	05h	PLL Control, AV (CVBS/S)
263	PLL Cont_AV_HD GAIN3	06h	PLL Control, AV (CVBS/S)
264	PLL Cont_D1/D2_SEPA LVL	00h	PLL Control, D1/D2
265	PLL Cont_D1/D2_HD AMP1	02h	PLL Control, D1/D2
266	PLL Cont_D1/D2_HD GAIN1	0Eh	PLL Control, AV (CVBS/S)
267	PLL Cont_D1/D2_HD AMP2	04h	PLL Control, D1/D2
268	PLL Cont_D1/D2_HD GAIN2	0Dh	PLL Control, D1/D2
269	PLL Cont_D1/D2_HD AMP3	05h	PLL Control, D1/D2
270	PLL Cont_D1/D2_HD GAIN3	06h	PLL Control, D1/D2
271	AI_Gamma_Min	2Ah	
272	AI_Gamma_Center	3Eh	
273	AI_Gamma_Max	50h	
274	AI_Color Gain_Min	14h	
275	AI_Color Gain_Center	00h	
276	AI_Color Gain_Max	EEh	
277	AI_APL Thresh_Lower	1Ch	
278	AI_APL Thresh_Upper	22h	
279	AI_Off Gamma	3Eh	
280	AI_Off Color	00h	
281	YC Delay_CVBS_YC Delay1	0Ch	
282	YC Delay_CVBS_YC Delay2	04h	
283	YC Delay_YC(S)_YC Delay1	0Ch	
284	YC Delay_YC(S)_YC Delay2	04h	
285	YC Delay_D1_YC Delay1	04h	
286	YC Delay_D1_YC Delay2	04h	
287	YC Delay_D2_YC Delay1	04h	
288	YC Delay_D2_YC Delay2	04h	
289	YC Delay_D3/D4_YC Delay1	04h	
290	YC Delay_D3/D4_YC Delay2	04h	
291	YC Delay_Digital_YC Delay1	04h	
292	YC Delay_Digital_YC Delay2	04h	
293	NVRAM_Dealer	00h	
294	NVRAM_Power Error	00h	
295	Snow Noise_ON OFF	01h	
296	V Mask	00h	
297	SRT_CVBS/S	02h	
298	SRT_D1	02h	
299	SRT_D2	02h	
300	SRT_D3/D4	02h	

No.	Name	Initial Data	Note
301	SRT_Digital	02h	
302	Clock Polarity	00h	
303	Rotation_Minute	1Eh	
304	ROM Correction_Number 01	02h	Address
305	ROM Correction_Number 02	02h	Address
306	D-Clamp_D1	03h	
307	D-Clamp_D1	03h	
308	Power ON_Enable Time	64h	
309	AD9985_Phase_D2	10h	
310	AD9985_Phase_D3	10h	
311	AD9985_Phase_D4	10h	
312	AD9985_Gain_D2-R	A0h	
313	AD9985_Gain_D2-G	A0h	
314	AD9985_Gain_D2-B	A0h	
315	AD9985_Gain_D3-R	A0h	
316	AD9985_Gain_D3-G	A0h	
317	AD9985_Gain_D3-B	A0h	
318	AD9985_Gain_D4-R	A0h	
319	AD9985_Gain_D4-G	A0h	
320	AD9985_Gain_D4-B	A0h	
321	AD9985_Offset_D2-R	00h	
322	AD9985_Offset_D2-G	00h	
323	AD9985_Offset_D2-B	00h	
324	AD9985_Offset_D3-R	00h	
325	AD9985_Offset_D3-G	00h	
326	AD9985_Offset_D3-B	00h	
327	AD9985_Offset_D4-R	00h	
328	AD9985_Offset_D4-G	00h	
329	AD9985_Offset_D4-B	00h	
330	AD9985_Clamp Placement_D2	14h	
331	AD9985_Clamp Placement_D3	14h	
332	AD9985_Clamp Placement_D4	14h	
333	AD9985_Clamp Duration_D2	10h	
334	AD9985_Clamp Duration_D3	10h	
335	AD9985_Clamp Duration_D4	10h	
336	TA1318_Format detect_V-Min	00h	
337	TA1318_Format detect_V-Max	00h	
338	TA1318_Format detect_VTR-Min	00h	
339	TA1318_Format detect_VTR-Max	00h	
340	TA1318_Format detect_D1-Min	20h	
341	TA1318_Format detect_D1-Max	2Ah	
342	TA1318_Format detect_D2-Min	48h	
343	TA1318_Format detect_D2-Max	4Dh	
344	TA1318_Format detect_D3-Min	4Eh	
345	TA1318_Format detect_D3-Max	53h	
346	TA1318_Format detect_D4-Min	68h	
347	TA1318_Format detect_D4-Max	6Fh	
348	TA1318_FAN-CON	00h	Fan Control (Low Temperature)
349	TA1318_FAN Ta	00h	Fan Control (Turn)
350	TA1318_FAN Tb	00h	Fan Control (Turn)
351	TA1318_FAN Tc	00h	Fan Control (Turn)

No.	Name	Initial Data	Note
352	TA1318_FAN Td	00h	Fan Control (Turn)
353	TA1318_FAN Te	00h	Fan Control (Turn)
354	TA1318_FAN Tf	04h	Fan Control (Turn)
355	TA1318_Power Error	00h	Error Information (history)
356	OSD H-POS	1Fh	OSD Horizontal Position
357	Color Temp_Warm_Color	00h	Color Gain by Color Temperature, Differential Data
358	Color Temp_Warm_Tint	00h	Tint by Color Temperature, Differential Data
359	Color Temp_Cool_Color	00h	Color Gain by Color Temperature, Differential Data
360	Color Temp_Cool_Tint	00h	Tint by Color Temperature, Differential Data
361	SIDE BAR_APL_Auto Ratio	B8h	
362	SIDE BAR_APL_Auto Max	FFh	
363	Other_D2_Phase Adjust	00h	For improved vertical line
364	DM_DM WDT	00h	Watched Timer
365	--	--	Factory Data
366	Aging_Pattern Select	00h	Select Internal Pattern
367	GAM SEL_CVBS/S_Gamma Table	01h	
368	GAM SEL_RF_Gamma Table	01h	
369	GAM SEL_D1_Gamma Table	01h	
370	GAM SEL_D2_Gamma Table	01h	
371	GAM SEL_D3_Gamma Table	01h	
372	GAM SEL_D4_Gamma Table	01h	
373	GAM SEL_Digital_Gamma Table	01h	
374	Malti APC_Standard_Upper P-Gain	80h	APC Upper Power Gain
375	Malti APC_Standard_Lower P-Gain	80h	APC Lower Power Gain
376	Malti APC_ECO1_Upper P-Gain	80h	APC Upper Power Gain
377	Malti APC_ECO1_Lower P-Gain	80h	APC Lower Power Gain
378	Malti APC_ECO2_Upper P-Gain	80h	APC Upper Power Gain
379	Malti APC_ECO2_Lower P-Gain	80h	APC Lower Power Gain
380	Peak Brightness_Normal (4:3)	60h	APC Offset Level
381	Peak Brightness_Other (16:9)	00h	APC Offset Level
382	Peak Brightness_Caption	60h	APC Offset Level
383	Data SCLK SEL_PATTN ON/OFF	00h	01:Internal Pattern, 00:Pattern Off
384	APC Select_Multi-APC	00h	00:Standard, 01:ECO1, 02:ECO2

SERVICE ADJUSTMENTS (Continued)

WHITE BALANCE ADJUSTMENT

Composite (External Video Input)

1. Connect a color-bar generator to the **external (composite) video input terminal**.
2. Switch the generator to the white pattern.
3. Set the television to following conditions:

Picture:	SPORTS
Color Enhancer:	Normal
Picture Size:	Full
Display Area:	16:9
4. Enter the Service Mode. See page 3. The Menu display will appear.
5. Select "White Balance Adjustment" Menu.
No. 000(R), No. 001(G), or No. 002(B)
6. Adjust Red, Green, and Blue Levels to produce normal black and white picture in highlight areas.

Note: One or two data of RGB should be left at "20" for normal contrast level. **Do not change the data to more than "20."**

Component (External Video Input)

Caution: White Balance Adjustment of **Composite** must be completed before attempting other input adjustments.

1. Connect a color-bar generator to the **external (composite) video input terminal (D1-D4)**.
2. Switch the generator to the white pattern.
3. Set the television to following conditions:

Picture:	SPORTS
Color Enhancer:	Normal
Picture Size:	Full
Display Area:	16:9
4. Enter the Service Mode. The Menu display will appear.
5. Select "White Balance Adjustment" Menu.
D1/D2: No. 012(R), No. 013(G), or No. 014(B)
D3/D4: No. 018(R), No. 019(G), or No. 020(B)
6. Adjust Red, Green, and Blue Levels to produce normal black and white picture in highlight areas.

Other Inputs

Caution: White Balance Adjustment of **Composite** must be completed before attempting other input adjustments.

White Balance Adjustment for other modes [RF, Digital] may be unnecessary if the adjustment of Composite is OK.

1. Connect a color-bar generator to the preferred video input terminal.
2. Switch the generator to the white pattern.

3. Set the television to following conditions:

Picture:	AUTO
Color Enhancer:	Normal
Picture Size:	Full
Display Area:	16:9

4. Enter the Service Mode. The Menu display will appear.
5. Select "White Balance Adjustment" Menu.
RF: No. 006(R), No. 007(G), or No. 008(B)
Digital: No. 024(R), No. 025(G), or No. 026(B)
6. Adjust Red, Green, and Blue Levels to produce normal black and white picture in highlight areas.

BLACK BALANCE ADJUSTMENT

Black Balance Adjustment may be unnecessary if the White Balance Adjustment of Composite is OK.

Composite (External Video Input)

1. Connect a color-bar generator to the **external (composite) video input terminal**.
2. Switch the generator to the dark grey pattern ("30% white" recommended).
3. Set the television to following conditions:

Picture:	SPORTS
Color Enhancer:	Normal
Picture Size:	Full
Display Area:	16:9
4. Enter the Service Mode. The Menu display will appear.
5. Select "Black Balance Adjustment" Menu.
No. 003(R), No. 004(G), or No. 005(B)
6. Adjust Red, Green, and Blue Levels alternately with 1, 3, 4, 6, 7, or 9 key to produce normal black and white picture in dark grey areas.

Other Inputs

Caution: Black Balance Adjustment of **Composite** must be completed before attempting other input adjustments.

1. Connect a color-bar generator to the preferred video input terminal.
2. Switch the generator to the dark gray pattern.
3. Set the television to following conditions:

Picture:	SPORTS
Color Enhancer:	Normal
Picture Size:	Full
Display Area:	16:9
4. Enter the Service Mode. The Menu display will appear.
5. Select "Black Balance Adjustment" Menu.
RF: No. 009(R), No. 010(G), or No. 011(B)
D1/D2: No. 015(R), No. 016(G), or No. 017(B)
D3/D4: No. 021(R), No. 022(G), or No. 023(B)
Digital: No. 027(R), No. 028(G), or No. 029(B)
6. Adjust Red, Green, and Blue Levels to produce normal black and white picture in dark grey areas.

POWER FAILURE CIRCUIT

The CPU (IC801) is programmed so the set will go to the standby mode when there is a circuit failure as described below. (Refer to "Power Supply Lines" page 38.)

1. **Power Failure 1:** Detected voltage failure for analog circuit. (Connected to IC801 pin 52.)
(Normal: High, Failure: Low)
2. **Power Failure 2:** Detected voltage failure for Audio AMP IC. (Connected to IC801 pin 53.)
(Normal: Low; Failure: High)
3. **Power Failure 3:** Detected voltage failure for digital circuit. (Connected to IC801 pin 54.)
(Normal: High, Failure: Low)
4. **Temperature Failure:** Detected temperature failure for Main Power Unit. (Connected to IC801 pin 57.)
(Normal: Low, Failure: High)

LED Flashing

When IC801 detects the Power Failure the LED will flash to indicate a power failure has occurred. The number of flashes will be determined by the type of failure detected as shown below.

Times of Flashes	Failure Name
1	Power Failure 1
2	Power Failure 3
3	Power Failure 2
4	Temperature Failure

Note: If power failure is detected 3 times in 15 minutes, the set will enter the standby mode and cannot be switched On. To reset the operating programs of the CPU it is necessary to disconnect the AC cord for a short time.

History of Power Failure

When finishing the repair or stopping the Power Failure, the history of past failures can be checked.

To see the history

1. Enter the service mode. See "Service Adjustments" page 3.
2. Select Item No. 355 POWER ERROR from the Service Adjustment Data Table.

History of Power Failures (Item No. 355)

Failure Name	Data
No Failure	00h(0)
Power Failure 1	01h(1)
Power Failure 3	04h(4)
Power Failure 2	10h(16)
Temperature Failure	20h(32)

Note: If simultaneous failures have been detected, the sum of each data is displayed.

For example:

Power failures 1 & 2

01h + 10h = **11h(17)**

Attention:

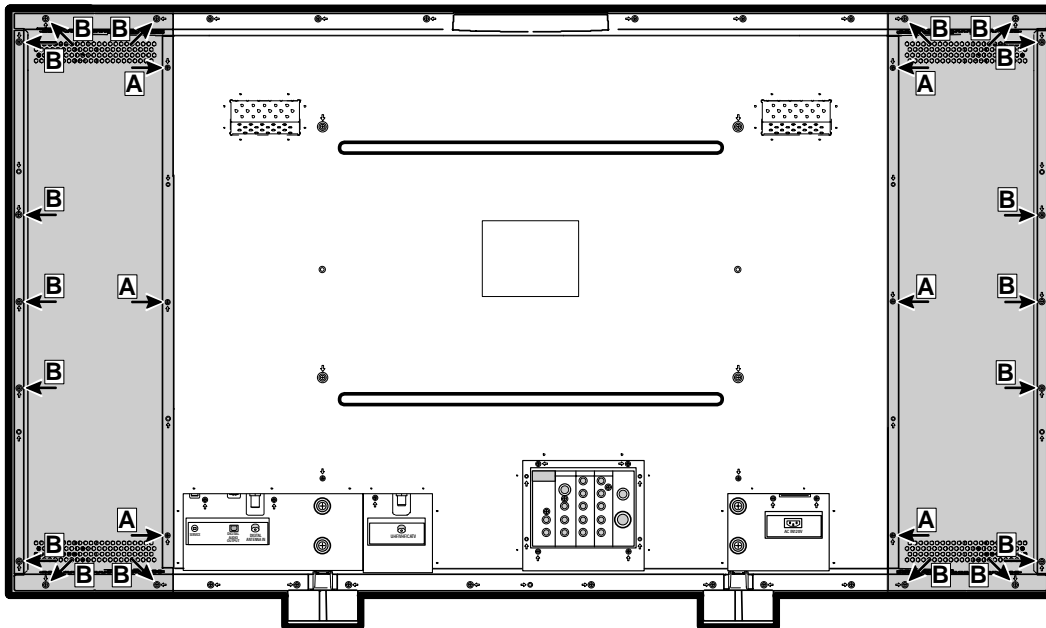
After finishing service, reset the data of Item No. 355 with the < or > keys to "00h(0)."

MECHANICAL DISASSEMBLY

BACK CABINET REMOVAL – SIDES

Remove 24 screws to take the side cabinets off.

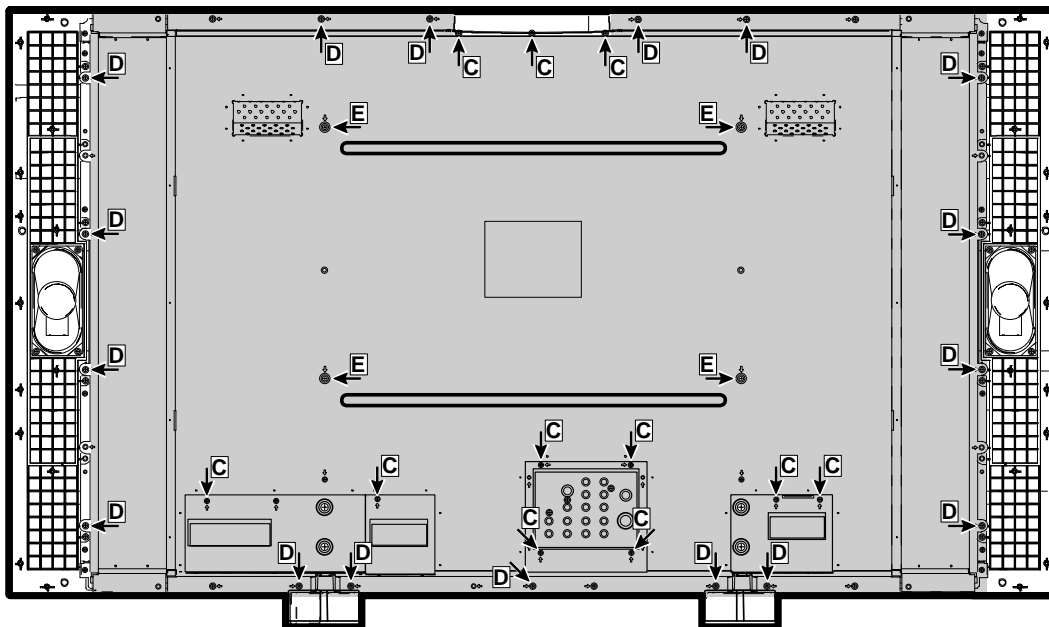
(A:3X8, 6pcs; B:4X12, 18pcs)



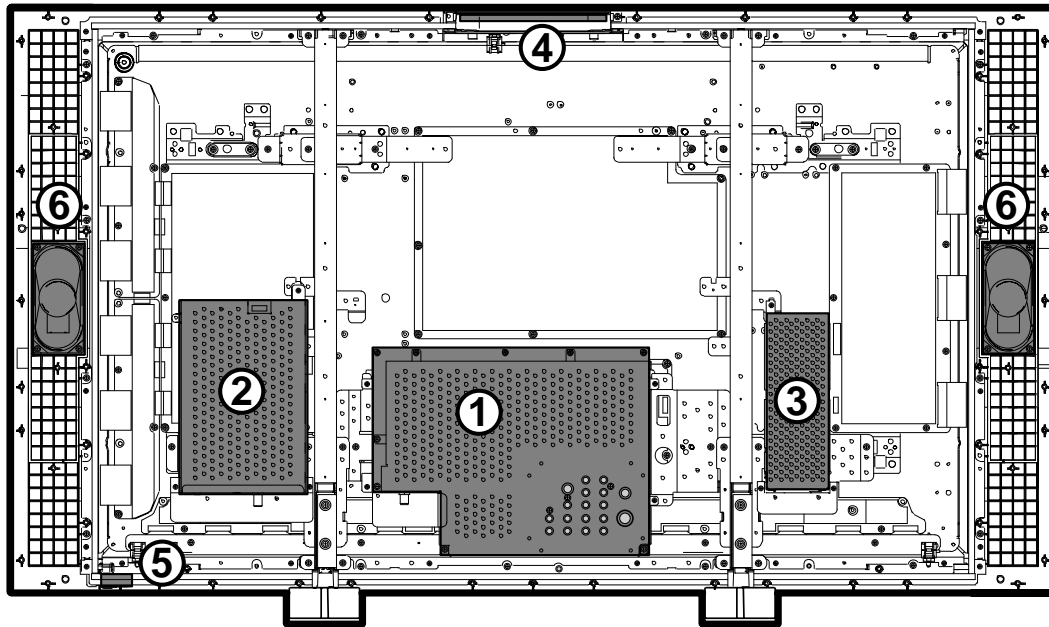
BACK CABINET REMOVAL- CENTER

Remove 32 screws to take the back cabinet off.

(C:3X8, 11pcs; D:4X12, 17pcs; E:6X18, 4pcs)



BOARD LOCATIONS



1: Main Board

2: D-TU (Digital) Board

3: Filter Board

4: Key SW Board

5: Control Board

6: Speakers

1: MAIN BOARD REMOVAL

Remove 4 screws (3X8) to take the main board with the shield case (assembly parts) off.

2: D-TU BOARD REMOVAL

Remove 3 screws (3X8) to take the D-TU (digital) board with the shield case (assembly parts) off.

3: FILTER BOARD REMOVAL

Remove 3 screws (3X8) to take the filter board with the shield case (assembly parts) off.

4: KEY SW BOARD REMOVAL

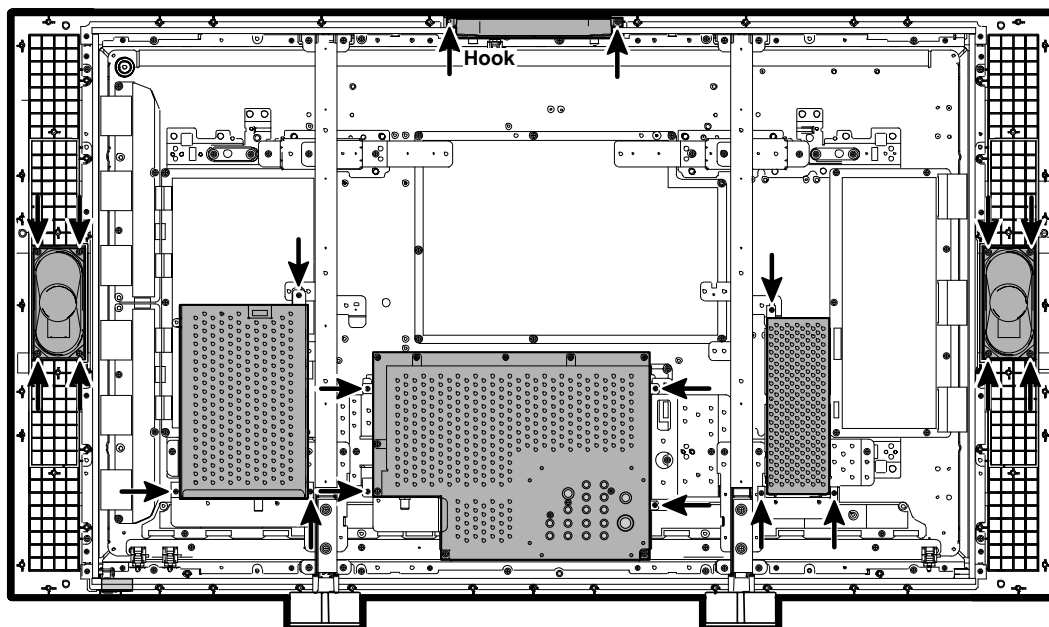
Remove a screw (4X12) to take the key switch board with the panel, button, and holder (assembly parts) off.

5: CONTROL BOARD REMOVAL

The control board can be taken off, after the filter glass is removed. (Refer to 'FILTER GLASS REMOVAL'.)

6: SPEAKER REMOVAL

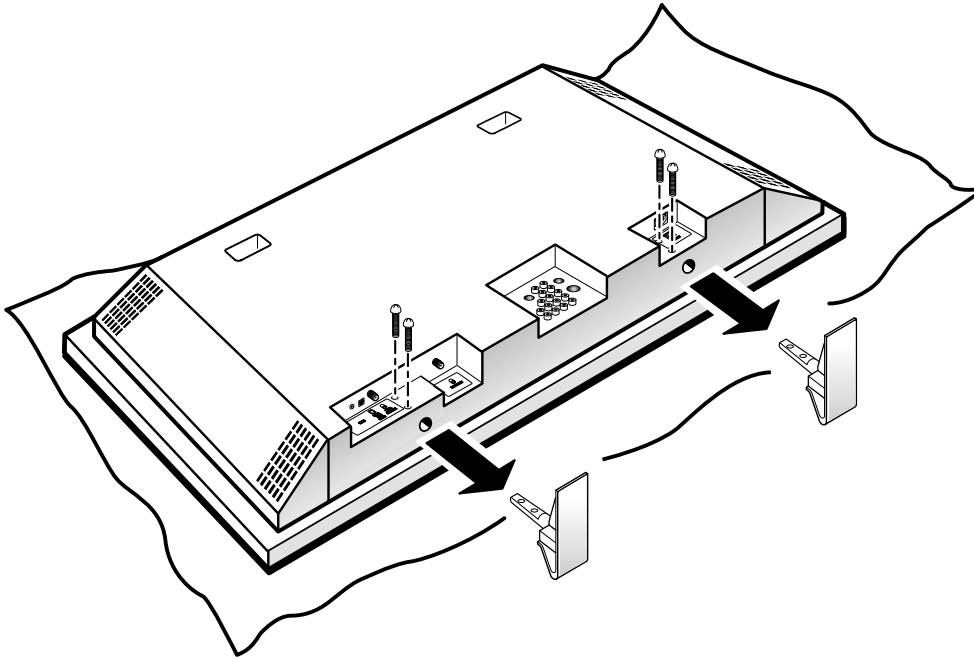
Remove 4 screws (4X10) to take off each speaker.



MECHANICAL DISASSEMBLY (CONT.)

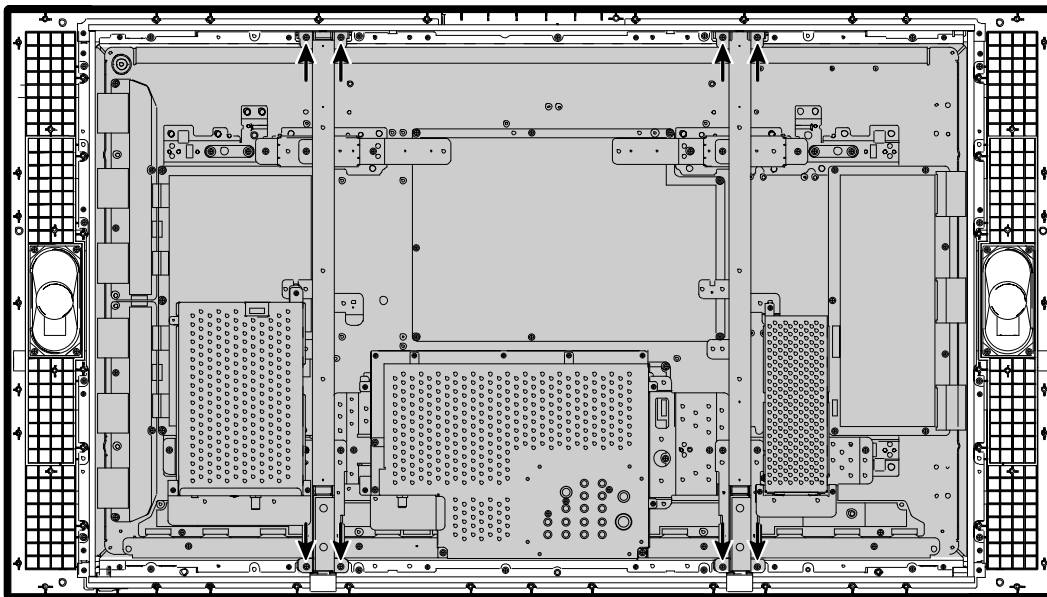
STAND REMOVAL

Position TV face down on a padded or cushioned surface to protect the screen and finish.
Remove 2 screws (6X18) from each foot and remove.

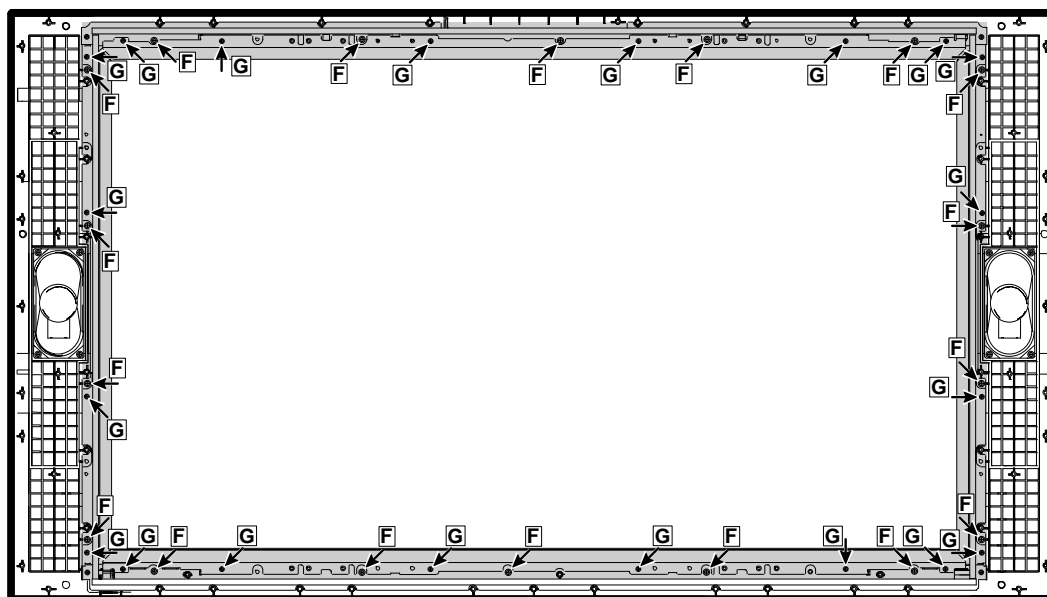


FILTER GLASS REMOVAL

1. Remove the key switch board.
2. Disconnect the following socket connections.
Control Board ~ Main Board: K8E
Speakers ~ Main Board: KSP8LR
3. Remove 8 screws (4X8) to take the panel module, power unit, and panel holders (Mounting Brackets) with boards off.

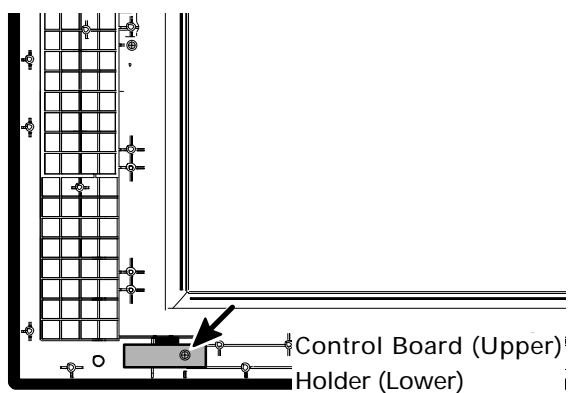


4. Remove 20 screws (G:3X8) to take the filter glass and upper plates off.



FRONT CABINET REMOVAL

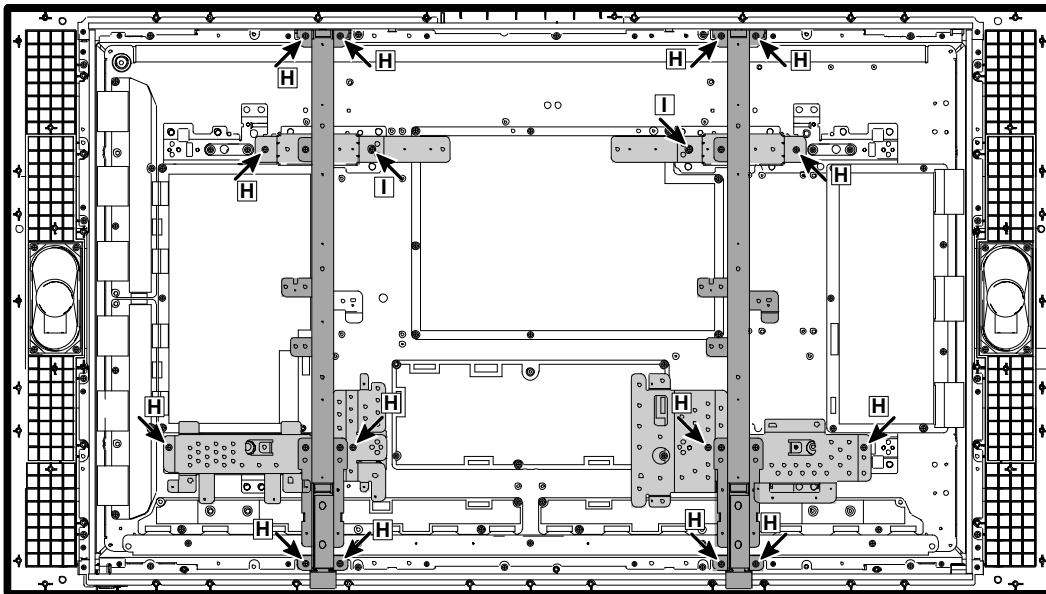
1. Remove 18 screws (F:4X12) to take the filter glass with upper and lower plates (assembly parts) off.
2. Remove the speakers.
3. Remove a screw (4X10) to take the control board and holder off.



MECHANICAL DISASSEMBLY (CONT.)

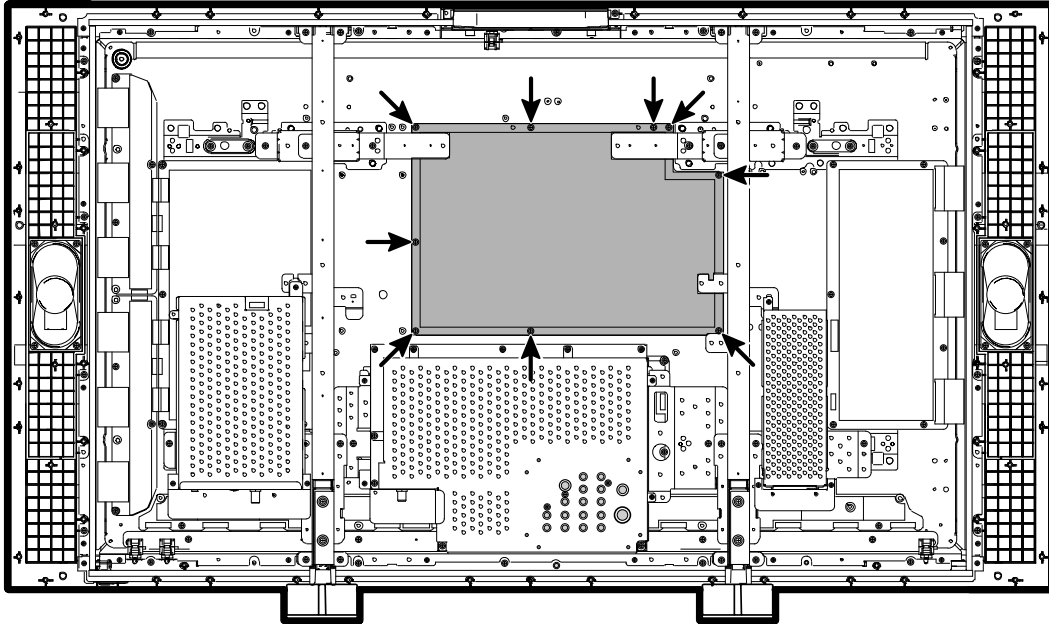
PANEL MODULE REMOVAL

1. Remove the key switch board.
2. Disconnect the following socket connections.
Main Board ~ Power Unit: CN8004, CN8007
D-TU Board ~ Power Unit: CN8010
Filter Board ~ Power Unit: CN800
Control Board ~ Main Board: K8E
Speakers ~ Main Board: KSP8LR
PDP Module ~ Main Board: K8L
3. Remove the main board, D-TU board, and filter board.
4. Remove the 16 screws from the panel holders (Mounting Brackets) to take the panel module off.
(H:4X8, 14pcs; I:5X10, 2pcs)



POWER UNIT REMOVAL

Remove 9 screws to take the power unit off.



ATTENTION

- This PDP TV uses several different kinds of screws. Using the **correct screw** is required to prevent damage.
- The **gasket** is provided to prevent interference to other radio and television receivers. The gasket should be returned to its previous position after servicing.
- Lead wires should be redressed to previous positions after servicing.

CHASSIS ELECTRICAL PARTS LIST

CAUTION: To Protect against electrical shock and for continued product safety, refer to **SAFETY PRECAUTIONS**, and **PRODUCT SAFETY NOTICE** on Page 2.

PRODUCT SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. COMPONENTS INDICATED BY A STAR (★) IN THIS PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATE COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS DESIGNATED ON THE FOLLOWING PARTS LIST BE USED FOR COMPONENT REPLACEMENT DESIGNATED BY A STAR. NO DEVIATIONS FROM RESISTANCE, WATTAGE, AND VOLTAGE RATINGS MAY BE MADE FOR REPLACEMENT ITEMS DESIGNATED BY A STAR.

Note: Schematic part location numbers may not always match with the part descriptions.
The part descriptions are correct and should be used.

CAPACITORS

NOTES:

Read description of the Capacitor as follows:

(Example)

CERAMIC 100P K 50V
Rated Voltage
Tolerance Symbols:
less than 10PF
A . .Not specified
B . .±0.1PF C . .±0.25PF
D . .±0.5PF F . .±1PF
G . .±2PF R . .±0.25 - 0PF
S . .+0 - 0.25PF E . .+0 - 1PF
more than 10PF
A . .Not specified
B . .±0.1% C . .±0.25%
D . .±0.5% F . .±1%
G . .±2% H . .±3%
J . .±5% K . .±10%
L . .±15% M . .±20%
N . .±30% P . .+100 - 0%
Q . .+30 - 10% T . .+50 - 10%
U . .+75 - 10% V . .+20 - 10%
W . .+100 - 10% X . .+40 - 20%
Y . .+150 - 10% Z . .+80 - 20%
Rated Value: P...Pico Farad U...Micro Farad

Material:

CERAMICCeramic
MT-PAPERMetalized Paper
POLYESTER . . .Polyester
MT-POLYEST . .Metalized Polyester
POLYPROPolypropylene
MT-POLYPRO . .Metalized Polypropylene
COMPO-FILM . .Composite Film
MT-COMPO . . .Metalized Composite
STYRENEStyrene
TA-SOLIDTantalum Solid
AL-SOLIDAluminum Solid
ELECTElectrolytic
NP-ELECTNon-Polarized Electrolytic
OS-SOLIDAluminum Solid with Organic
Semiconductive Electrolytic

RESISTORS

NOTES:

Read description of the Resistor as follows:

(Example)

CARBON 4.7K J A 1/4W
Rated Wattage
Performance Symbols:
A...General B...Non-flammabl
Z...Low noise
Other... Temperature coefficie
Tolerance Symbols:
A...0.05% B...0.1% C...25%
D...0.5% F...1% G...2%
J...5% K...10% M...20%
P...+5 -15%
Rated Value, ohms:
K...1,000 M...1,000,000
Material:
CARBONCarbon
MT-FILMMetal Film
OXIDE-MTOxide Metal Film
SOLIDComposition
MT-GLAZEMetal Glaze
WIRE WOUND . . .Wire Wound
CERAMIC RES . . .Ceramic
FUSIBLE RES . . .Fusible

Schematic Location	Part No.	Description
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MISCELLANEOUS

★ EL901	645 074 6321	PDP MODULE (Less Logic Unit)
U901	645 078 3937	LOGIC UNIT, PDP
PSU	645 078 9892	POWER SUPPLY UNIT, PDP
EL902	645 074 6338	OPTICAL FILTER
SPL	652 001 5258	SPEAKER, 16
SPR	652 001 5258	SPEAKER, 16

DIGITAL PC BOARD

A2001	610 318 3299	ASSY, PWB, DIGITAL TUJ3TR
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Nonservicable part. No discreet parts provided for this pc board.

MAIN PC BOARD

CAPACITORS

C001	403 345 6605	CERAMIC	1U Z	10V
C002	403 355 9900	CERAMIC	2.2U K	10V
C003	403 224 6207	CERAMIC	0.022U Z	50V
C004	403 224 5804	CERAMIC	2200P K	50V
C005	403 279 0106	CERAMIC	0.1U Z	25V
C006	403 345 6605	CERAMIC	1U Z	10V
C007	403 309 1400	CERAMIC	1U Z	10V
	403 336 5600	CERAMIC	1.0U Z	10V
C008	403 309 1400	CERAMIC	1U Z	10V
	403 336 5600	CERAMIC	1.0U Z	10V
C009	403 309 1400	CERAMIC	1U Z	10V
	403 336 5600	CERAMIC	1.0U Z	10V
C010	403 309 1400	CERAMIC	1U Z	10V
	403 336 5600	CERAMIC	1.0U Z	10V
C011	403 309 1400	CERAMIC	1U Z	10V
	403 336 5600	CERAMIC	1.0U Z	10V
C012	403 279 0106	CERAMIC	0.1U Z	25V
C013	403 319 4804	CERAMIC	0.22U Z	16V
C014	403 345 6605	CERAMIC	1U Z	10V
C015	403 279 0106	CERAMIC	0.1U Z	25V
C016	403 224 5804	CERAMIC	2200P K	50V
C017	403 309 1400	CERAMIC	1U Z	10V
	403 336 5600	CERAMIC	1.0U Z	10V
C018	403 355 9900	CERAMIC	2.2U K	10V
C019	403 345 6605	CERAMIC	1U Z	10V
C020	403 279 0106	CERAMIC	0.1U Z	25V
C021	403 148 0305	ELECT	470U M	16V
C026	403 126 4707	ELECT	220U M	16V
C028	403 176 1800	ELECT	10U M	16V
C030	403 176 1800	ELECT	10U M	16V
C031	403 279 0106	CERAMIC	0.1U Z	25V
C033	403 279 0106	CERAMIC	0.1U Z	25V
C034	403 279 0106	CERAMIC	0.1U Z	25V
C035	403 148 0305	ELECT	470U M	16V
C036	403 176 1800	ELECT	10U M	16V
C037	403 357 9403	CERAMIC	820P J	50V
C038	403 357 9304	CERAMIC	560P J	50V
C039	403 279 0106	CERAMIC	0.1U Z	25V
C040	403 357 9304	CERAMIC	560P J	50V

Schematic Location	Part No.	Description
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C041	403 357 9403	CERAMIC	820P J	50V
C042	403 176 1800	ELECT	10U M	16V
C043	403 156 8102	ELECT	22U M	16V
C045	403 156 1004	ELECT	47U M	16V
C046	403 156 7808	ELECT	47U M	6.3V
C101	403 296 0004	CERAMIC	0.1U K	25V
C102	403 279 0106	CERAMIC	0.1U Z	25V
C103	403 176 1800	ELECT	10U M	16V
C105	403 345 6605	CERAMIC	1U Z	10V
C108	403 176 1800	ELECT	10U M	16V
C111	403 126 4509	ELECT	100U M	16V
C113	403 296 0004	CERAMIC	0.1U K	25V
C114	403 126 4509	ELECT	100U M	16V
C116	403 279 0106	CERAMIC	0.1U Z	25V
C117	403 279 0106	CERAMIC	0.1U Z	25V
C118	403 279 0106	CERAMIC	0.1U Z	25V
C119	403 345 6605	CERAMIC	1U Z	10V
C121	403 279 0106	CERAMIC	0.1U Z	25V
C122	403 420 1105	CERAMIC	0.18U K	10V
C123	403 420 1105	CERAMIC	0.18U K	10V
C124	403 420 1105	CERAMIC	0.18U K	10V
C126	403 420 1105	CERAMIC	0.18U K	10V
C127	403 420 1105	CERAMIC	0.18U K	10V
C128	403 420 1105	CERAMIC	0.18U K	10V
C129	403 420 1105	CERAMIC	0.18U K	10V
C130	403 148 0305	ELECT	470U M	16V
C131	403 420 1105	CERAMIC	0.18U K	10V
C132	403 148 0305	ELECT	470U M	16V
C133	403 235 6203	CERAMIC	0.01U Z	50V
C134	403 420 1105	CERAMIC	0.18U K	10V
C136	403 420 1105	CERAMIC	0.18U K	10V
C137	403 235 6203	CERAMIC	0.01U Z	50V
C138	403 420 1105	CERAMIC	0.18U K	10V
C139	403 420 1105	CERAMIC	0.18U K	10V
C208	403 156 9000	ELECT	2.2U M	50V
C209	403 235 6203	CERAMIC	0.01U Z	50V
C212	403 235 6203	CERAMIC	0.01U Z	50V
C213	403 154 8302	ELECT	47U M	50V
C300	403 279 0106	CERAMIC	0.1U Z	25V
C301	403 155 5409	ELECT	220U M	6.3V
C302	403 155 5409	ELECT	220U M	6.3V
C303	403 279 0106	CERAMIC	0.1U Z	25V
C304	403 279 0106	CERAMIC	0.1U Z	25V
C306	403 279 0106	CERAMIC	0.1U Z	25V
C307	403 279 0106	CERAMIC	0.1U Z	25V
C308	403 279 0106	CERAMIC	0.1U Z	25V
C309	403 279 0106	CERAMIC	0.1U Z	25V
C310	403 279 0106	CERAMIC	0.1U Z	25V
C311	403 279 0106	CERAMIC	0.1U Z	25V
C312	403 279 0106	CERAMIC	0.1U Z	25V
C313	403 279 0106	CERAMIC	0.1U Z	25V
C314	403 279 0106	CERAMIC	0.1U Z	25V
C315	403 279 0106	CERAMIC	0.1U Z	25V
C316	403 279 0106	CERAMIC	0.1U Z	25V

Schematic Location	Part No.	Description		
C317	403 279 0106	CERAMIC	0.1U Z	25V
C320	403 279 0106	CERAMIC	0.1U Z	25V
C321	403 156 7808	ELECT	47U M	6.3V
C322	403 279 0106	CERAMIC	0.1U Z	25V
C628	403 126 4509	ELECT	100U M	16V
C629	403 156 0908	ELECT	100U M	6.3V
C802	403 279 0106	CERAMIC	0.1U Z	25V
C803	403 279 0106	CERAMIC	0.1U Z	25V
C804	403 279 0106	CERAMIC	0.1U Z	25V
C805	403 279 0106	CERAMIC	0.1U Z	25V
C807	403 156 9000	ELECT	2.2U M	50V
C808	403 279 0106	CERAMIC	0.1U Z	25V
C829	403 235 1000	CERAMIC	220P J	50V
C830	403 357 8802	CERAMIC	1000P J	50V
C831	403 279 0106	CERAMIC	0.1U Z	25V
C832	403 224 5507	CERAMIC	22P J	50V
C833	403 224 5507	CERAMIC	22P J	50V
C834	403 279 0106	CERAMIC	0.1U Z	25V
C835	403 279 0106	CERAMIC	0.1U Z	25V
C836	403 279 0106	CERAMIC	0.1U Z	25V
C840	403 279 0106	CERAMIC	0.1U Z	25V
C841	403 234 9700	CERAMIC	12P J	50V
C842	403 234 9700	CERAMIC	12P J	50V
C844	403 279 0106	CERAMIC	0.1U Z	25V
C845	403 224 5507	CERAMIC	22P J	50V
C846	403 224 5507	CERAMIC	22P J	50V
C847	403 319 0905	CERAMIC	680P J	50V
C848	403 279 0106	CERAMIC	0.1U Z	25V
C849	403 224 5507	CERAMIC	22P J	50V
C850	403 345 6605	CERAMIC	1U Z	10V
C851	403 224 5507	CERAMIC	22P J	50V
C852	403 224 5507	CERAMIC	22P J	50V
C853	403 224 5507	CERAMIC	22P J	50V
C854	403 224 5507	CERAMIC	22P J	50V
C855	403 156 7808	ELECT	47U M	6.3V
C856	403 279 0106	CERAMIC	0.1U Z	25V
C857	403 279 0106	CERAMIC	0.1U Z	25V
C860	403 279 0106	CERAMIC	0.1U Z	25V
C861	403 155 5409	ELECT	220U M	6.3V
C862	403 155 5409	ELECT	220U M	6.3V
C863	403 155 5409	ELECT	220U M	6.3V
C864	403 155 5409	ELECT	220U M	6.3V
C872	403 279 0106	CERAMIC	0.1U Z	25V
C883	403 279 0106	CERAMIC	0.1U Z	25V
C1051	403 279 0106	CERAMIC	0.1U Z	25V
C1052	403 279 0106	CERAMIC	0.1U Z	25V
C1053	403 279 0106	CERAMIC	0.1U Z	25V
C1121	403 156 8102	ELECT	22U M	16V
C1122	403 279 0106	CERAMIC	0.1U Z	25V
C1125	403 234 9007	CERAMIC	5P C	50V
C1126	403 234 9700	CERAMIC	12P J	50V
C1127	403 234 9205	CERAMIC	7P D	50V
C1128	403 279 0106	CERAMIC	0.1U Z	25V
C1130	403 156 8102	ELECT	22U M	16V

Schematic Location	Part No.	Description		
C1131	403 345 6605	CERAMIC	1U Z	10V
C1132	403 345 6605	CERAMIC	1U Z	10V
C1138	403 234 9205	CERAMIC	7P D	50V
C1139	403 234 9700	CERAMIC	12P J	50V
C1140	403 234 9007	CERAMIC	5P C	50V
C1141	403 234 9700	CERAMIC	12P J	50V
C1142	403 234 9007	CERAMIC	5P C	50V
C1143	403 234 9205	CERAMIC	7P D	50V
C1145	403 156 9000	ELECT	2.2U M	50V
C1146	403 235 0102	CERAMIC	39P J	50V
C1147	403 235 0102	CERAMIC	39P J	50V
C1152	403 156 7808	ELECT	47U M	6.3V
C1153	403 156 7808	ELECT	47U M	6.3V
C1154	403 156 7808	ELECT	47U M	6.3V
C1155	403 156 7808	ELECT	47U M	6.3V
C1156	403 156 7808	ELECT	47U M	6.3V
C1157	403 156 7808	ELECT	47U M	6.3V
C1202	403 279 0106	CERAMIC	0.1U Z	25V
C1203	403 345 6605	CERAMIC	1U Z	10V
C1204	403 355 9900	CERAMIC	2.2U K	10V
C1205	403 355 9900	CERAMIC	2.2U K	10V
C1206	403 355 9900	CERAMIC	2.2U K	10V
C1208	403 355 9900	CERAMIC	2.2U K	10V
C1210	403 355 9900	CERAMIC	2.2U K	10V
C1211	403 355 9900	CERAMIC	2.2U K	10V
C1212	403 345 6605	CERAMIC	1U Z	10V
C1213	403 355 9900	CERAMIC	2.2U K	10V
C1214	403 355 9900	CERAMIC	2.2U K	10V
C1215	403 156 8102	ELECT	22U M	16V
C1216	403 355 9900	CERAMIC	2.2U K	10V
C1217	403 345 6605	CERAMIC	1U Z	10V
C1218	403 355 9900	CERAMIC	2.2U K	10V
C1219	403 126 4707	ELECT	220U M	16V
C1222	403 156 8102	ELECT	22U M	16V
C1223	403 279 0106	CERAMIC	0.1U Z	25V
C1224	403 156 8102	ELECT	22U M	16V
C1225	403 279 0106	CERAMIC	0.1U Z	25V
C1240	403 279 0106	CERAMIC	0.1U Z	25V
C1241	403 126 4707	ELECT	220U M	16V
C1242	403 126 4707	ELECT	220U M	16V
C1602	403 155 5409	ELECT	220U M	6.3V
C1631	403 126 4707	ELECT	220U M	16V
C1635	403 126 4707	ELECT	220U M	16V
C1636	403 155 5409	ELECT	220U M	6.3V
C1637	403 154 8302	ELECT	47U M	50V
C1638	403 155 5409	ELECT	220U M	6.3V
C1701	403 279 0106	CERAMIC	0.1U Z	25V
C1702	403 279 0106	CERAMIC	0.1U Z	25V
C1703	403 279 0106	CERAMIC	0.1U Z	25V
C1704	403 279 0106	CERAMIC	0.1U Z	25V
C1706	403 235 6203	CERAMIC	0.01U Z	50V
C1707	403 156 9000	ELECT	2.2U M	50V
C1708	403 156 8102	ELECT	22U M	16V
C1709	403 279 0106	CERAMIC	0.1U Z	25V

Schematic Location	Part No.	Description		
C1711	403 279 0106	CERAMIC	0.1U Z	25V
C1712	403 279 0106	CERAMIC	0.1U Z	25V
C1713	403 345 6605	CERAMIC	1U Z	10V
C1714	403 345 6605	CERAMIC	1U Z	10V
C1716	403 176 1800	ELECT	10U M	16V
C1771	403 279 0106	CERAMIC	0.1U Z	25V
C1772	403 156 7808	ELECT	47U M	6.3V
C2001	403 155 5409	ELECT	220U M	6.3V
C2002	403 279 0106	CERAMIC	0.1U Z	25V
C2003	403 279 0106	CERAMIC	0.1U Z	25V
C2004	403 279 0106	CERAMIC	0.1U Z	25V
C2005	403 279 0106	CERAMIC	0.1U Z	25V
C2006	403 279 0106	CERAMIC	0.1U Z	25V
C2007	403 279 0106	CERAMIC	0.1U Z	25V
C2008	403 279 0106	CERAMIC	0.1U Z	25V
C2009	403 279 0106	CERAMIC	0.1U Z	25V
C2010	403 279 0106	CERAMIC	0.1U Z	25V
C2011	403 279 0106	CERAMIC	0.1U Z	25V
C2012	403 279 0106	CERAMIC	0.1U Z	25V
C2013	403 279 0106	CERAMIC	0.1U Z	25V
C2014	403 279 0106	CERAMIC	0.1U Z	25V
C2015	403 279 0106	CERAMIC	0.1U Z	25V
C2016	403 279 0106	CERAMIC	0.1U Z	25V
C2017	403 279 0106	CERAMIC	0.1U Z	25V
C2018	403 279 0106	CERAMIC	0.1U Z	25V
C2019	403 279 0106	CERAMIC	0.1U Z	25V
C2020	403 279 0106	CERAMIC	0.1U Z	25V
C2021	403 279 0106	CERAMIC	0.1U Z	25V
C2022	403 155 5409	ELECT	220U M	6.3V
C2023	403 279 0106	CERAMIC	0.1U Z	25V
C2024	403 279 0106	CERAMIC	0.1U Z	25V
C2025	403 155 5409	ELECT	220U M	6.3V
C2026	403 279 0106	CERAMIC	0.1U Z	25V
C2027	403 279 0106	CERAMIC	0.1U Z	25V
C2028	403 155 5409	ELECT	220U M	6.3V
C2029	403 279 0106	CERAMIC	0.1U Z	25V
C2030	403 155 5409	ELECT	220U M	6.3V
C2031	403 279 0106	CERAMIC	0.1U Z	25V
C2032	403 235 5404	CERAMIC	1500P K	50V
C2033	403 234 9809	CERAMIC	18P J	50V
C2034	403 224 5705	CERAMIC	1000P K	50V
C2035	403 224 5507	CERAMIC	22P J	50V
C2036	403 235 0805	CERAMIC	150P J	50V
C2037	403 235 0805	CERAMIC	150P J	50V
C2038	403 235 0409	CERAMIC	68P J	50V
C2039	403 235 0409	CERAMIC	68P J	50V
C2040	403 234 8901	CERAMIC	4P C	50V
C2041	403 224 6108	CERAMIC	0.01U K	50V
C2042	403 279 0106	CERAMIC	0.1U Z	25V
C2043	403 279 0106	CERAMIC	0.1U Z	25V
C2044	403 224 6108	CERAMIC	0.01U K	50V
C2045	403 224 6108	CERAMIC	0.01U K	50V
C2046	403 224 6108	CERAMIC	0.01U K	50V
C2047	403 224 6108	CERAMIC	0.01U K	50V

Schematic Location	Part No.	Description		
C2048	403 279 0106	CERAMIC	0.1U Z	25V
C2049	403 279 0106	CERAMIC	0.1U Z	25V
C2050	403 224 6108	CERAMIC	0.01U K	50V
C2051	403 224 6108	CERAMIC	0.01U K	50V
C2052	403 224 6108	CERAMIC	0.01U K	50V
C2053	403 224 6108	CERAMIC	0.01U K	50V
C2054	403 224 6108	CERAMIC	0.01U K	50V
C2055	403 279 0106	CERAMIC	0.1U Z	25V
C2056	403 224 6108	CERAMIC	0.01U K	50V
C2057	403 224 6108	CERAMIC	0.01U K	50V
C2058	403 224 6108	CERAMIC	0.01U K	50V
C2059	403 224 6108	CERAMIC	0.01U K	50V
C2060	403 224 6108	CERAMIC	0.01U K	50V
C2061	403 279 0106	CERAMIC	0.1U Z	25V
C2062	403 279 0106	CERAMIC	0.1U Z	25V
C2063	403 224 6108	CERAMIC	0.01U K	50V
C2064	403 279 0106	CERAMIC	0.1U Z	25V
C2065	403 279 0106	CERAMIC	0.1U Z	25V
C2066	403 224 6108	CERAMIC	0.01U K	50V
C2067	403 224 6108	CERAMIC	0.01U K	50V
C2068	403 224 6108	CERAMIC	0.01U K	50V
C2069	403 235 5404	CERAMIC	1500P K	50V
C2070	403 279 0106	CERAMIC	0.1U Z	25V
C2071	403 155 5409	ELECT	220U M	6.3V
C2072	403 279 0106	CERAMIC	0.1U Z	25V
C2073	403 279 0106	CERAMIC	0.1U Z	25V
C2074	403 279 0106	CERAMIC	0.1U Z	25V
C2075	403 279 0106	CERAMIC	0.1U Z	25V
C2076	403 155 5409	ELECT	220U M	6.3V
C2077	403 155 5409	ELECT	220U M	6.3V
C2078	403 155 5409	ELECT	220U M	6.3V
C2079	403 155 5409	ELECT	220U M	6.3V
C2080	403 155 5409	ELECT	220U M	6.3V
C2081	403 155 5409	ELECT	220U M	6.3V
C2082	403 279 0106	CERAMIC	0.1U Z	25V
C2083	403 155 5409	ELECT	220U M	6.3V
C2084	403 279 0106	CERAMIC	0.1U Z	25V
C2085	403 155 5409	ELECT	220U M	6.3V
C2086	403 279 0106	CERAMIC	0.1U Z	25V
C2087	403 155 5409	ELECT	220U M	6.3V
C2088	403 279 0106	CERAMIC	0.1U Z	25V
C2101	403 156 9000	ELECT	2.2U M	50V
C2102	403 279 0106	CERAMIC	0.1U Z	25V
C2103	403 156 8102	ELECT	22U M	16V
C2104	403 364 7508	CERAMIC	10P J	50V
C2105	403 234 9908	CERAMIC	27P J	50V
C2106	403 234 9700	CERAMIC	12P J	50V
C2107	403 224 5507	CERAMIC	22P J	50V
C2111	403 279 0106	CERAMIC	0.1U Z	25V
C2112	403 234 9908	CERAMIC	27P J	50V
C2113	403 234 9700	CERAMIC	12P J	50V
C2114	403 224 5507	CERAMIC	22P J	50V
C2115	403 279 0106	CERAMIC	0.1U Z	25V
C3251	403 156 7808	ELECT	47U M	6.3V

Schematic Location	Part No.	Description		
C3252	403 279 0106	CERAMIC	0.1U Z	25V
C3253	403 279 0106	CERAMIC	0.1U Z	25V
C3254	403 156 7808	ELECT	47U M	6.3V
C4101	403 279 0106	CERAMIC	0.1U Z	25V
C4102	403 279 0106	CERAMIC	0.1U Z	25V
C4103	403 279 0106	CERAMIC	0.1U Z	25V
C4104	403 279 0106	CERAMIC	0.1U Z	25V
C4106	403 279 0106	CERAMIC	0.1U Z	25V
C4107	403 279 0106	CERAMIC	0.1U Z	25V
C4108	403 279 0106	CERAMIC	0.1U Z	25V
C4109	403 279 0106	CERAMIC	0.1U Z	25V
C4111	403 279 0106	CERAMIC	0.1U Z	25V
C4112	403 279 0106	CERAMIC	0.1U Z	25V
C4113	403 279 0106	CERAMIC	0.1U Z	25V
C4114	403 279 0106	CERAMIC	0.1U Z	25V
C4116	403 279 0106	CERAMIC	0.1U Z	25V
C4117	403 279 0106	CERAMIC	0.1U Z	25V
C4118	403 279 0106	CERAMIC	0.1U Z	25V
C4119	403 279 0106	CERAMIC	0.1U Z	25V
C4120	403 156 7808	ELECT	47U M	6.3V
C4121	403 156 7808	ELECT	47U M	6.3V
C4122	403 156 7808	ELECT	47U M	6.3V
C4127	403 235 5909	CERAMIC	8200P K	50V
C4128	403 324 9009	CERAMIC	0.082U K	16V
C4131	403 319 4804	CERAMIC	0.22U Z	16V
C4133	403 235 0805	CERAMIC	150P J	50V
C4139	403 319 4804	CERAMIC	0.22U Z	16V
C4142	403 235 0805	CERAMIC	150P J	50V
C4148	403 319 4804	CERAMIC	0.22U Z	16V
C4151	403 235 0805	CERAMIC	150P J	50V
C4156	403 279 0106	CERAMIC	0.1U Z	25V
C4157	403 156 8102	ELECT	22U M	16V
C4162	403 234 9809	CERAMIC	18P J	50V
C4163	403 364 7508	CERAMIC	10P J	50V
C4164	403 234 9007	CERAMIC	5P C	50V
C4167	403 234 9809	CERAMIC	18P J	50V
C4168	403 364 7508	CERAMIC	10P J	50V
C4169	403 234 9007	CERAMIC	5P C	50V
C4172	403 234 9809	CERAMIC	18P J	50V
C4173	403 364 7508	CERAMIC	10P J	50V
C4174	403 234 9007	CERAMIC	5P C	50V
C7002	403 155 5409	ELECT	220U M	6.3V
C7003	403 279 0106	CERAMIC	0.1U Z	25V
C7004	403 155 5409	ELECT	220U M	6.3V
C7005	403 279 0106	CERAMIC	0.1U Z	25V
C7006	403 279 0106	CERAMIC	0.1U Z	25V
C7007	403 155 5409	ELECT	220U M	6.3V
C7008	403 279 0106	CERAMIC	0.1U Z	25V
C7009	403 279 0106	CERAMIC	0.1U Z	25V
C7010	403 279 0106	CERAMIC	0.1U Z	25V
C7011	403 279 0106	CERAMIC	0.1U Z	25V
C7012	403 279 0106	CERAMIC	0.1U Z	25V
C7014	403 156 7808	ELECT	47U M	6.3V
C7015	403 279 0106	CERAMIC	0.1U Z	25V

Schematic Location	Part No.	Description		
C7016	403 279 0106	CERAMIC	0.1U Z	25V
C7017	403 279 0106	CERAMIC	0.1U Z	25V
C7018	403 279 0106	CERAMIC	0.1U Z	25V
C7030	403 279 0106	CERAMIC	0.1U Z	25V
C7122	403 364 7508	CERAMIC	10P J	50V
C7517	403 279 0106	CERAMIC	0.1U Z	25V
C8035	403 279 0106	CERAMIC	0.1U Z	25V
C8036	403 345 6605	CERAMIC	1U Z	10V
C8037	403 345 6605	CERAMIC	1U Z	10V

DIODES

D001	407 210 5403	DIODE RB551V-30 TE-17
D002	407 149 0807	DIODE 1SS355 TE-17
D102	407 149 0807	DIODE 1SS355 TE-17
D103	407 201 2721	DIODE RB051L-40
D104	407 201 2721	DIODE RB051L-40
D106	407 201 2721	DIODE RB051L-40
D107	407 201 2721	DIODE RB051L-40
D627	407 149 0807	DIODE 1SS355 TE-17
D801	407 149 0807	DIODE 1SS355 TE-17
D840	407 149 0807	DIODE 1SS355 TE-17
D860	407 210 5403	DIODE RB551V-30 TE-17
D861	407 210 5403	DIODE RB551V-30 TE-17
D1001	407 149 0807	DIODE 1SS355 TE-17
D1601	407 149 0807	DIODE 1SS355 TE-17
D1602	407 149 0807	DIODE 1SS355 TE-17
D2001	407 149 0807	DIODE 1SS355 TE-17
D2002	407 149 0807	DIODE 1SS355 TE-17
D2003	407 149 0807	DIODE 1SS355 TE-17
D2004	407 149 0807	DIODE 1SS355 TE-17
D2005	407 149 0807	DIODE 1SS355 TE-17

INTEGRATED CIRCUITS

IC001	409 564 4309	IC NJW1142M
IC004	409 625 1506	C CS4344-CZZ
IC005	409 039 7804	IC NJM4558M-TE2
IC006	409 591 8608	IC BA50BC0FP
IC101	409 539 8004	IC TA2024
IC301	409 604 5204	IC LC74986NWF
IC304	409 501 9107	IC ICS512MT
IC622	409 591 8608	IC BA50BC0FP
IC801	410 553 8901	IC M306V7FGFP-J3TRS
IC801A	409 606 6001	IC M306V7FG-FP
IC801B	610 320 1450	LABEL-M306V7FGFP-J3TRS
IC802	409 416 0622	IC MN1382-H-TX
IC803	410 358 1503	IC TC74HC4053AFT(EL)
IC804	409 339 3605	IC 24LC16BT/SN
IC805	410 346 3304	IC TC74HC4066AFT(EL)
IC806	409 588 6303	IC BA33BC0FP
IC807	409 588 6303	IC BA33BC0FP
IC1103	409 366 0509	IC M52055FP
IC1201	409 602 5721	IC MM1492AF

Schematic Location	Part No.	Description
IC1202	409 602 5503	IC BA90BC0WFP-E2
IC1701	409 523 5002	IC TA1318AF
IC1771	410 386 1902	IC TC74VCX125FT
IC2001	409 636 1403	C TC90288BXBG
	409 611 7703	IC TC90288AXBG
IC2002	409 416 0622	IC MN1382-H-TX
IC2003	409 482 7505	IC BA25BC0FP
IC2004	409 592 8508	IC BA15BC0FP
IC3251	410 474 1401	IC TC74VCX162827FT
IC3252	409 438 5609	IC TC74ACT08FT
IC4101	410 543 9109	IC AD9985KSTZ-110
IC7001	410 423 7201	IC THC63LVDM83R
IC7003	409 462 2308	IC TC7SZ04FU
IC7004	409 462 2308	IC TC7SZ04FU
IC7005	409 429 6806	IC TC74LCX74FT-(EL)
IC7006	409 368 5809	IC TC7SH08FU
IC7007	409 429 6806	IC TC74LCX74FT-(EL)
IC7008	409 487 5724	IC TC7SZ125FU

COILS

L001	645 040 6430	INDUCTOR, 2.2U M
L003	645 040 6430	INDUCTOR, 2.2U M
L004	645 040 6430	INDUCTOR, 2.2U M
L101	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L102	645 050 3924	INDUCTOR, 10U M
L103	645 050 3924	INDUCTOR, 10U M
L104	645 050 3924	INDUCTOR, 10U M
L106	645 050 3924	INDUCTOR, 10U M
L109	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L301	645 036 3894	INDUCTOR, 220 OHM
L302	645 036 3894	INDUCTOR, 220 OHM
L304	645 040 6430	INDUCTOR, 2.2U M
L622	645 040 6430	INDUCTOR, 2.2U M
L1129	645 021 1607	INDUCTOR, 10U J
	645 032 8213	INDUCTOR, 10U J
L1130	645 040 6430	INDUCTOR, 2.2U M
L1131	645 040 6430	INDUCTOR, 2.2U M
L1134	645 021 1607	INDUCTOR, 10U J
	645 032 8213	INDUCTOR, 10U J
L1135	645 021 1607	INDUCTOR, 10U J
	645 032 8213	INDUCTOR, 10U J
L1201	645 040 6430	INDUCTOR, 2.2U M
L1602	645 023 2978	INDUCTOR, 800 OHM
L1603	645 023 2978	INDUCTOR, 800 OHM
L1604	645 023 2978	INDUCTOR, 800 OHM
L1605	645 023 2978	INDUCTOR, 800 OHM
L1606	645 037 4500	INDUCTOR, 1000 OHM
L1607	645 037 4500	INDUCTOR, 1000 OHM
L1701	645 040 6430	INDUCTOR, 2.2U M
L1771	645 036 3894	INDUCTOR, 220 OHM
L2001	645 036 3894	INDUCTOR, 220 OHM
L2002	645 036 3894	INDUCTOR, 220 OHM
L2003	645 036 3894	INDUCTOR, 220 OHM
L2004	645 036 3894	INDUCTOR, 220 OHM
L2005	645 036 3894	INDUCTOR, 220 OHM
L2010	645 020 7051	INDUCTOR, 1.5U J
L2010	645 041 2158	INDUCTOR, 1.5U J

Schematic Location	Part No.	Description
L2070	645 036 3894	INDUCTOR, 220 OHM
L2071	645 036 3894	INDUCTOR, 220 OHM
L2072	645 036 3894	INDUCTOR, 220 OHM
L2073	645 036 3894	INDUCTOR, 220 OHM
L2074	645 036 3894	INDUCTOR, 220 OHM
L2080	645 036 3894	INDUCTOR, 220 OHM
L2102	645 021 1621	INDUCTOR, 15U J
	645 030 5627	INDUCTOR, 15U J
L2103	645 040 6430	INDUCTOR, 2.2U M
L2111	645 021 1621	INDUCTOR, 15U J
	645 030 5627	INDUCTOR, 15U J
L3251	645 036 3894	INDUCTOR, 220 OHM
L3252	645 036 3894	INDUCTOR, 220 OHM
L4101	645 040 6430	INDUCTOR, 2.2U M
L4102	645 040 6430	INDUCTOR, 2.2U M
L4105	645 040 6430	INDUCTOR, 2.2U M
L4107	645 040 6430	INDUCTOR, 2.2U M
L4108	645 020 7051	INDUCTOR, 1.5U J
L4108	645 059 1716	INDUCTOR, 1.5U J
L4109	645 020 7051	INDUCTOR, 1.5U J
	645 059 1716	INDUCTOR, 1.5U J
L4111	645 020 7051	INDUCTOR, 1.5U J
	645 059 1716	INDUCTOR, 1.5U J
L7001	645 036 3894	INDUCTOR, 220 OHM
L7002	645 036 3894	INDUCTOR, 220 OHM
L7003	645 036 3894	INDUCTOR, 220 OHM
L7009	645 036 3894	INDUCTOR, 220 OHM

TRANSISTORS

Q002	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q003	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q004	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q008	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB

Schematic Location	Part No.	Description
Q008 (Cont.)	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
Q101	405 173 9902	TR 2SC3928A1S
	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
Q201	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q801	405 134 5925	TR 2SA1037AK T146 R
	405 147 2205	TR 2SA1037AK T146 S
	405 002 0308	TR 2SA1037K-T-96-R
	405 002 0407	TR 2SA1037K-T-96-S
	405 002 6726	TR 2SA1179-M6
	405 002 6924	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q802	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q805	405 134 5925	TR 2SA1037AK T146 R
	405 147 2205	TR 2SA1037AK T146 S
	405 002 0308	TR 2SA1037K-T-96-R
	405 002 0407	TR 2SA1037K-T-96-S
	405 002 6726	TR 2SA1179-M6
	405 002 6924	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q807	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q810	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB

Schematic Location	Part No.	Description
Q853	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
Q860	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
	405 045 8725	TR 2SK536
Q1001	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1002	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1051	405 134 5925	TR 2SA1037AK T146 R
	405 147 2205	TR 2SA1037AK T146 S
	405 002 0308	TR 2SA1037K-T-96-R
	405 002 0407	TR 2SA1037K-T-96-S
	405 002 6726	TR 2SA1179-M6
	405 002 6924	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q1121	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1122	405 134 5925	TR 2SA1037AK T146 R
	405 147 2205	TR 2SA1037AK T146 S
	405 002 0308	TR 2SA1037K-T-96-R
	405 002 0407	TR 2SA1037K-T-96-S
	405 002 6726	TR 2SA1179-M6
	405 002 6924	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F

Schematic Location	Part No.	Description
Q1123	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
Q1124	405 173 9902	TR 2SC3928A1S
	405 134 5925	TR 2SA1037AK T146 R
	405 147 2205	TR 2SA1037AK T146 S
	405 002 0308	TR 2SA1037K-T-96-R
	405 002 0407	TR 2SA1037K-T-96-S
	405 002 6726	TR 2SA1179-M6
	405 002 6924	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
Q1125	405 173 9704	TR 2SA1235A1F
	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
Q1126	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
	405 134 5925	TR 2SA1037AK T146 R
	405 147 2205	TR 2SA1037AK T146 S
	405 002 0308	TR 2SA1037K-T-96-R
	405 002 0407	TR 2SA1037K-T-96-S
	405 002 6726	TR 2SA1179-M6
	405 002 6924	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q1127	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
Q1201	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
Q1202	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R

Schematic Location	Part No.	Description
Q1701	405 173 9902	TR 2SC3928A1S
	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
Q2020	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
Q2101	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
	405 134 5925	TR 2SA1037AK T146 R
	405 147 2205	TR 2SA1037AK T146 S
	405 002 0308	TR 2SA1037K-T-96-R
	405 002 0407	TR 2SA1037K-T-96-S
Q2102	405 002 6726	TR 2SA1179-M6
	405 002 6924	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
	405 014 4509	TR 2SC2412K-T-96-R
Q2103	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q2104	405 134 5925	TR 2SA1037AK T146 R
	405 147 2205	TR 2SA1037AK T146 S
	405 002 0308	TR 2SA1037K-T-96-R
	405 002 0407	TR 2SA1037K-T-96-S
	405 002 6726	TR 2SA1179-M6
	405 002 6924	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
Q2105	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB

Schematic Location	Part No.	Description
Q2105 (Cont)	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q2106	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
Q2107	405 173 9902	TR 2SC3928A1S
	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
Q4101	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
	405 134 5925	TR 2SA1037AK T146 R
	405 147 2205	TR 2SA1037AK T146 S
	405 002 0308	TR 2SA1037K-T-96-R
	405 002 0407	TR 2SA1037K-T-96-S
	405 002 6726	TR 2SA1179-M6
	405 002 6924	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q4102	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q4103	405 134 5925	TR 2SA1037AK T146 R
	405 147 2205	TR 2SA1037AK T146 S
	405 002 0308	TR 2SA1037K-T-96-R
	405 002 0407	TR 2SA1037K-T-96-S
	405 002 6726	TR 2SA1179-M6
	405 002 6924	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q4104	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
Q4106	405 173 9902	TR 2SC3928A1S
	405 134 5925	TR 2SA1037AK T146 R
	405 147 2205	TR 2SA1037AK T146 S
	405 002 0308	TR 2SA1037K-T-96-R
	405 002 0407	TR 2SA1037K-T-96-S
	405 002 6726	TR 2SA1179-M6

Schematic Location	Part No.	Description
Q4107	405 002 6924	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
Q4108	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
	405 134 5925	TR 2SA1037AK T146 R
	405 147 2205	TR 2SA1037AK T146 S
	405 002 0308	TR 2SA1037K-T-96-R
	405 002 0407	TR 2SA1037K-T-96-S
	405 002 6726	TR 2SA1179-M6
	405 002 6924	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
Q4109	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
	405 134 5925	TR 2SA1037AK T146 R
	405 147 2205	TR 2SA1037AK T146 S
	405 002 0308	TR 2SA1037K-T-96-R
	405 002 0407	TR 2SA1037K-T-96-S
	405 002 6726	TR 2SA1179-M6
	405 002 6924	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
Q4110	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
	405 134 5925	TR 2SA1037AK T146 R
	405 147 2205	TR 2SA1037AK T146 S
	405 002 0308	TR 2SA1037K-T-96-R
	405 002 0407	TR 2SA1037K-T-96-S
	405 002 6726	TR 2SA1179-M6
	405 002 6924	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
Q7001	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
Q8024	405 173 9902	TR 2SC3928A1S
	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S

Schematic Location	Part No.	Description
Q8025	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
	RESISTORS	
RB301	645 037 0670	R-NETWORK 47X4 0.063W
	645 018 8930	R-NETWORK 47X4 1/16W
RB302	645 037 0670	R-NETWORK 47X4 0.063W
	645 018 8930	R-NETWORK 47X4 1/16W
RB303	645 037 0670	R-NETWORK 47X4 0.063W
	645 018 8930	R-NETWORK 47X4 1/16W
RB304	645 037 0670	R-NETWORK 47X4 0.063W
	645 018 8930	R-NETWORK 47X4 1/16W
RB305	645 037 0670	R-NETWORK 47X4 0.063W
	645 018 8930	R-NETWORK 47X4 1/16W
RB306	645 037 0670	R-NETWORK 47X4 0.063W
	645 018 8930	R-NETWORK 47X4 1/16W
RB307	645 037 0670	R-NETWORK 47X4 0.063W
	645 018 8930	R-NETWORK 47X4 1/16W
RB308	645 037 0656	R-NETWORK 0X4 0.063W
	645 024 7477	R-NETWORK 0X4 1/16W
RB309	645 037 0656	R-NETWORK 0X4 0.063W
	645 024 7477	R-NETWORK 0X4 1/16W
RB310	645 037 0656	R-NETWORK 0X4 0.063W
	645 024 7477	R-NETWORK 0X4 1/16W
RB2001	645 037 0670	R-NETWORK 47X4 0.063W
	645 018 8930	R-NETWORK 47X4 1/16W
RB2002	645 037 0670	R-NETWORK 47X4 0.063W
	645 018 8930	R-NETWORK 47X4 1/16W
RB2003	645 037 0670	R-NETWORK 47X4 0.063W
	645 018 8930	R-NETWORK 47X4 1/16W
RB2004	645 037 0670	R-NETWORK 47X4 0.063W
	645 018 8930	R-NETWORK 47X4 1/16W
RB2005	645 037 0670	R-NETWORK 47X4 0.063W
	645 018 8930	R-NETWORK 47X4 1/16W
RB2006	645 037 0670	R-NETWORK 47X4 0.063W
	645 018 8930	R-NETWORK 47X4 1/16W
RB2007	645 037 0670	R-NETWORK 47X4 0.063W
	645 018 8930	R-NETWORK 47X4 1/16W
RB3251	645 037 0670	R-NETWORK 47X4 0.063W
	645 018 8930	R-NETWORK 47X4 1/16W
RB3252	645 037 0670	R-NETWORK 47X4 0.063W
	645 018 8930	R-NETWORK 47X4 1/16W
RB3253	645 037 0670	R-NETWORK 47X4 0.063W
	645 018 8930	R-NETWORK 47X4 1/16W
RB3254	645 037 0670	R-NETWORK 47X4 0.063W
	645 018 8930	R-NETWORK 47X4 1/16W
RB3255	645 037 0670	R-NETWORK 47X4 0.063W
	645 018 8930	R-NETWORK 47X4 1/16W
RB4101	645 037 0663	R-NETWORK 22X4 0.063W
	645 021 4943	R-NETWORK 22X4 1/16W
RB4102	645 037 0663	R-NETWORK 22X4 0.063W
	645 021 4943	R-NETWORK 22X4 1/16W

Schematic Location	Part No.	Description
RB4106	645 037 0663	R-NETWORK 22X4 0.063W
	645 021 4943	R-NETWORK 22X4 1/16W
RB4107	645 037 0663	R-NETWORK 22X4 0.063W
	645 021 4943	R-NETWORK 22X4 1/16W
R001	401 256 4109	MT-GLAZE 56 JA 1/10W
R002	401 255 6500	MT-GLAZE 100 JA 1/10W
R003	401 255 6500	MT-GLAZE 100 JA 1/10W
R004	401 256 6905	MT-GLAZE 680 JA 1/10W
R005	401 256 4109	MT-GLAZE 56 JA 1/10W
R006	401 256 6905	MT-GLAZE 680 JA 1/10W
R007	401 256 4109	MT-GLAZE 56 JA 1/10W
R008	401 256 6905	MT-GLAZE 680 JA 1/10W
R009	401 256 4109	MT-GLAZE 56 JA 1/10W
R010	401 256 6905	MT-GLAZE 680 JA 1/10W
R011	401 255 8702	MT-GLAZE 22 JA 1/10W
R012	401 255 8702	MT-GLAZE 22 JA 1/10W
R013	401 255 8702	MT-GLAZE 22 JA 1/10W
R014	401 255 8702	MT-GLAZE 22 JA 1/10W
R024	401 256 6301	MT-GLAZE 47K JA 1/10W
R025	401 256 6301	MT-GLAZE 47K JA 1/10W
R026	401 162 2800	MT-GLAZE 1.8K JA 1/10W
R027	401 256 7308	MT-GLAZE 6.8K JA 1/10W
R028	401 162 3104	MT-GLAZE 3.3K JA 1/10W
R029	401 162 2800	MT-GLAZE 1.8K JA 1/10W
R030	401 256 7308	MT-GLAZE 6.8K JA 1/10W
R031	401 162 2800	MT-GLAZE 1.8K JA 1/10W
R032	401 256 3409	MT-GLAZE 7.5K JA 1/10W
R033	401 162 2800	MT-GLAZE 1.8K JA 1/10W
R034	401 256 7308	MT-GLAZE 6.8K JA 1/10W
R035	401 256 6301	MT-GLAZE 47K JA 1/10W
R036	401 162 3104	MT-GLAZE 3.3K JA 1/10W
R037	401 162 2800	MT-GLAZE 1.8K JA 1/10W
R038	401 256 7308	MT-GLAZE 6.8K JA 1/10W
R039	401 256 3409	MT-GLAZE 7.5K JA 1/10W
R040	401 162 2800	MT-GLAZE 1.8K JA 1/10W
R041	401 256 6301	MT-GLAZE 47K JA 1/10W
R042	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R043	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R101	401 256 0101	MT-GLAZE 8.2K JA 1/10W
R102	401 256 6004	MT-GLAZE 27K JA 1/10W
R103	401 256 0408	MT-GLAZE 12K JA 1/10W
R106	401 150 6100	MT-GLAZE 2.2K JA 1/10W
R107	401 150 6209	MT-GLAZE 1K JA 1/10W
R109	401 150 5905	MT-GLAZE 10K JA 1/10W
R111	401 150 5905	MT-GLAZE 10K JA 1/10W
R112	401 150 5905	MT-GLAZE 10K JA 1/10W
R113	401 256 6004	MT-GLAZE 27K JA 1/10W
R114	401 256 0408	MT-GLAZE 12K JA 1/10W
R117	401 150 6100	MT-GLAZE 2.2K JA 1/10W
R118	401 256 7209	MT-GLAZE 18K JA 1/10W
R119	401 035 4306	MT-GLAZE 10 JA 1/8W
R121	4 01 035 4306	MT-GLAZE 10 JA 1/8W
R201	401 255 6500	MT-GLAZE 100 JA 1/10W
R202	401 255 6500	MT-GLAZE 100 JA 1/10W
R203	401 255 6500	MT-GLAZE 100 JA 1/10W
R204	401 255 6500	MT-GLAZE 100 JA 1/10W
R205	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R206	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R211	401 162 3609	MT-GLAZE 470 JA 1/10W

Schematic Location	Part No.	Description
R212	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R213	401 256 4109	MT-GLAZE 56 JA 1/10W
R301	401 150 5905	MT-GLAZE 10K JA 1/10W
R302	401 150 5905	MT-GLAZE 10K JA 1/10W
R303	401 150 5905	MT-GLAZE 10K JA 1/10W
R304	401 150 5905	MT-GLAZE 10K JA 1/10W
R305	401 255 6500	MT-GLAZE 100 JA 1/10W
R306	401 255 6500	MT-GLAZE 100 JA 1/10W
R307	401 162 3708	MT-GLAZE 4.7K JA 1/10W
R308	401 255 6500	MT-GLAZE 100 JA 1/10W
R311	401 150 6209	MT-GLAZE 1K JA 1/10W
R312	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R318	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R319	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R327	401 255 6500	MT-GLAZE 100 JA 1/10W
R328	645 004 6650	INDUCTOR 600 OHM
R333	401 150 5905	MT-GLAZE 10K JA 1/10W
R334	401 150 5905	MT-GLAZE 10K JA 1/10W
R335	401 150 5905	MT-GLAZE 10K JA 1/10W
R336	401 150 5905	MT-GLAZE 10K JA 1/10W
R800	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R801	401 256 6301	MT-GLAZE 47K JA 1/10W
R802	401 162 3104	MT-GLAZE 3.3K JA 1/10W
R803	401 162 3104	MT-GLAZE 3.3K JA 1/10W
R804	401 150 5905	MT-GLAZE 10K JA 1/10W
R805	401 150 5905	MT-GLAZE 10K JA 1/10W
R806	401 150 5905	MT-GLAZE 10K JA 1/10W
R807	401 255 6500	MT-GLAZE 100 JA 1/10W
R808	401 255 6500	MT-GLAZE 100 JA 1/10W
R809	401 255 6500	MT-GLAZE 100 JA 1/10W
R810	401 255 6500	MT-GLAZE 100 JA 1/10W
R811	401 255 6500	MT-GLAZE 100 JA 1/10W
R812	401 255 6500	MT-GLAZE 100 JA 1/10W
R813	401 150 6209	MT-GLAZE 1K JA 1/10W
R815	401 150 5905	MT-GLAZE 10K JA 1/10W
R816	401 150 5905	MT-GLAZE 10K JA 1/10W
R817	401 150 5905	MT-GLAZE 10K JA 1/10W
R819	401 162 3104	MT-GLAZE 3.3K JA 1/10W
R820	401 256 6301	MT-GLAZE 47K JA 1/10W
R821	401 256 6301	MT-GLAZE 47K JA 1/10W
R822	401 150 6209	MT-GLAZE 1K JA 1/10W
R823	401 162 3104	MT-GLAZE 3.3K JA 1/10W
R824	401 255 6500	MT-GLAZE 100 JA 1/10W
R827	401 256 6301	MT-GLAZE 47K JA 1/10W
R828	401 256 6301	MT-GLAZE 47K JA 1/10W
R829	401 150 6209	MT-GLAZE 1K JA 1/10W
R831	401 150 5905	MT-GLAZE 10K JA 1/10W
R832	401 255 6500	MT-GLAZE 100 JA 1/10W
R833	401 255 6005	MT-GLAZE 1M JA 1/10W
R834	401 255 6500	MT-GLAZE 100 JA 1/10W
R835	401 256 6301	MT-GLAZE 47K JA 1/10W
R836	401 150 5905	MT-GLAZE 10K JA 1/10W
R837	401 150 5905	MT-GLAZE 10K JA 1/10W
R838	401 255 6500	MT-GLAZE 100 JA 1/10W
R839	401 255 6500	MT-GLAZE 100 JA 1/10W
R841	401 256 6301	MT-GLAZE 47K JA 1/10W
R842	401 256 6301	MT-GLAZE 47K JA 1/10W
R843	401 255 6500	MT-GLAZE 100 JA 1/10W
R844	401 255 6500	MT-GLAZE 100 JA 1/10W

Schematic Location	Part No.	Description
R845	401 256 6301	MT-GLAZE 47K JA 1/10W
R846	401 256 6301	MT-GLAZE 47K JA 1/10W
R847	401 150 6209	MT-GLAZE 1K JA 1/10W
R848	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R849	401 256 6301	MT-GLAZE 47K JA 1/10W
R850	401 150 5905	MT-GLAZE 10K JA 1/10W
R851	401 150 5905	MT-GLAZE 10K JA 1/10W
R852	401 150 5905	MT-GLAZE 10K JA 1/10W
R853	401 150 5905	MT-GLAZE 10K JA 1/10W
R855	401 255 6500	MT-GLAZE 100 JA 1/10W
R856	401 150 6209	MT-GLAZE 1K JA 1/10W
R858	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R859	401 255 6500	MT-GLAZE 100 JA 1/10W
R860	401 162 4101	MT-GLAZE 5.6K JA 1/10W
R861	401 150 5905	MT-GLAZE 10K JA 1/10W
R862	401 255 6500	MT-GLAZE 100 JA 1/10W
R863	401 255 6500	MT-GLAZE 100 JA 1/10W
R864	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R865	401 150 5905	MT-GLAZE 10K JA 1/10W
R866	401 256 5601	MT-GLAZE 47 JA 1/10W
R867	401 256 5601	MT-GLAZE 47 JA 1/10W
R868	401 256 5601	MT-GLAZE 47 JA 1/10W
R869	401 255 6500	MT-GLAZE 100 JA 1/10W
R870	401 150 5905	MT-GLAZE 10K JA 1/10W
R871	401 256 5601	MT-GLAZE 47 JA 1/10W
R872	401 256 5601	MT-GLAZE 47 JA 1/10W
R873	401 256 5601	MT-GLAZE 47 JA 1/10W
R874	401 255 6500	MT-GLAZE 100 JA 1/10W
R875	401 255 6500	MT-GLAZE 100 JA 1/10W
R876	401 255 6500	MT-GLAZE 100 JA 1/10W
R877	401 255 6500	MT-GLAZE 100 JA 1/10W
R878	401 255 6500	MT-GLAZE 100 JA 1/10W
R879	401 256 5601	MT-GLAZE 47 JA 1/10W
R880	401 255 6500	MT-GLAZE 100 JA 1/10W
R881	401 256 6301	MT-GLAZE 47K JA 1/10W
R883	401 255 6500	MT-GLAZE 100 JA 1/10W
R884	401 255 6500	MT-GLAZE 100 JA 1/10W
R885	401 255 6500	MT-GLAZE 100 JA 1/10W
R886	401 162 3609	MT-GLAZE 470 JA 1/10W
R887	401 255 6500	MT-GLAZE 100 JA 1/10W
R888	401 255 6500	MT-GLAZE 100 JA 1/10W
R889	401 256 6301	MT-GLAZE 47K JA 1/10W
R890	401 255 6500	MT-GLAZE 100 JA 1/10W
R891	401 255 6500	MT-GLAZE 100 JA 1/10W
R892	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R893	401 256 7209	MT-GLAZE 18K JA 1/10W
R894	401 256 7209	MT-GLAZE 18K JA 1/10W
R895	401 255 6500	MT-GLAZE 100 JA 1/10W
R896	401 255 6500	MT-GLAZE 100 JA 1/10W
R897	401 256 6301	MT-GLAZE 47K JA 1/10W
R900	401 256 5601	MT-GLAZE 47 JA 1/10W
R901	401 256 5601	MT-GLAZE 47 JA 1/10W
R902	401 256 5601	MT-GLAZE 47 JA 1/10W
R903	401 256 6301	MT-GLAZE 47K JA 1/10W
R904	401 256 5601	MT-GLAZE 47 JA 1/10W
R905	401 256 5601	MT-GLAZE 47 JA 1/10W
R906	401 255 6500	MT-GLAZE 100 JA 1/10W
R907	401 256 5304	MT-GLAZE 56K JA 1/10W
R908	401 255 6500	MT-GLAZE 100 JA 1/10W

Schematic Location	Part No.	Description
R909	401 255 6500	MT-GLAZE 100 JA 1/10W
R915	401 256 7209	MT-GLAZE 18K JA 1/10W
R916	401 256 1702	MT-GLAZE 33K JA 1/10W
R917	401 255 6500	MT-GLAZE 100 JA 1/10W
R918	401 256 1702	MT-GLAZE 33K JA 1/10W
R919	401 256 6301	MT-GLAZE 47K JA 1/10W
R920	401 256 1702	MT-GLAZE 33K JA 1/10W
R921	401 256 7209	MT-GLAZE 18K JA 1/10W
R1001	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1006	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1007	401 150 5806	MT-GLAZE 100K JA 1/10W
R1009	401 256 0309	MT-GLAZE 820 JA 1/10W
R1011	401 162 3807	MT-GLAZE 470K JA 1/10W
R1012	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1014	401 150 5806	MT-GLAZE 100K JA 1/10W
R1015	401 162 3807	MT-GLAZE 470K JA 1/10W
R1018	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1021	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1024	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1027	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1030	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1035	401 150 5905	MT-GLAZE 10K JA 1/10W
R1038	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1041	401 256 0309	MT-GLAZE 820 JA 1/10W
R1042	401 150 5905	MT-GLAZE 10K JA 1/10W
R1043	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1044	401 150 5806	MT-GLAZE 100K JA 1/10W
R1045	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1046	401 150 5806	MT-GLAZE 100K JA 1/10W
R1047	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1048	401 150 5806	MT-GLAZE 100K JA 1/10W
R1049	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1050	401 150 5806	MT-GLAZE 100K JA 1/10W
R1051	401 150 6209	MT-GLAZE 1K JA 1/10W
R1052	401 255 6500	MT-GLAZE 100 JA 1/10W
R1053	401 256 6301	MT-GLAZE 47K JA 1/10W
R1055	401 256 2709	MT-GLAZE 75 JA 1/10W
R1057	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1066	401 150 6209	MT-GLAZE 1K JA 1/10W
R1067	401 150 5806	MT-GLAZE 100K JA 1/10W
R1071	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1072	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1073	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1075	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1076	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1077	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1078	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1079	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1080	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1081	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1082	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1083	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1084	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1085	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1086	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1087	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1088	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1123	401 256 4109	MT-GLAZE 56 JA 1/10W
R1124	401 150 6209	MT-GLAZE 1K JA 1/10W

Schematic Location	Part No.	Description
R1125	401 256 6905	MT-GLAZE 680 JA 1/10W
R1127	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1129	401 150 5905	MT-GLAZE 10K JA 1/10W
R1130	401 256 6905	MT-GLAZE 680 JA 1/10W
R1131	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1134	401 150 5905	MT-GLAZE 10K JA 1/10W
R1136	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1138	401 150 5905	MT-GLAZE 10K JA 1/10W
R1140	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1141	401 256 6905	MT-GLAZE 680 JA 1/10W
R1143	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1144	401 256 6905	MT-GLAZE 680 JA 1/10W
R1145	401 256 4109	MT-GLAZE 56 JA 1/10W
R1146	401 150 6209	MT-GLAZE 1K JA 1/10W
R1147	401 256 4109	MT-GLAZE 56 JA 1/10W
R1148	401 150 6209	MT-GLAZE 1K JA 1/10W
R1149	401 256 6905	MT-GLAZE 680 JA 1/10W
R1151	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1152	401 150 5905	MT-GLAZE 10K JA 1/10W
R1153	401 162 2909	MT-GLAZE 220 JA 1/10W
R1154	401 256 6905	MT-GLAZE 680 JA 1/10W
R1155	401 256 6905	MT-GLAZE 680 JA 1/10W
R1173	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1174	401 256 2709	MT-GLAZE 75 JA 1/10W
R1175	401 150 6209	MT-GLAZE 1K JA 1/10W
R1176	401 150 6209	MT-GLAZE 1K JA 1/10W
R1177	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1178	401 256 2709	MT-GLAZE 75 JA 1/10W
R1179	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1180	401 256 2709	MT-GLAZE 75 JA 1/10W
R1181	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1182	401 256 2709	MT-GLAZE 75 JA 1/10W
R1183	401 150 6209	MT-GLAZE 1K JA 1/10W
R1184	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1185	401 256 2709	MT-GLAZE 75 JA 1/10W
R1186	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1187	401 256 2709	MT-GLAZE 75 JA 1/10W
R1201	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1203	401 255 6500	MT-GLAZE 100 JA 1/10W
R1204	401 255 6500	MT-GLAZE 100 JA 1/10W
R1205	401 255 6500	MT-GLAZE 100 JA 1/10W
R1207	401 256 4109	MT-GLAZE 56 JA 1/10W
R1209	401 256 1702	MT-GLAZE 33K JA 1/10W
R1210	401 150 5905	MT-GLAZE 10K JA 1/10W
R1211	401 256 4109	MT-GLAZE 56 JA 1/10W
R1213	401 150 6209	MT-GLAZE 1K JA 1/10W
R1214	401 150 6209	MT-GLAZE 1K JA 1/10W
R1216	401 256 2709	MT-GLAZE 75 JA 1/10W
R1217	401 256 2709	MT-GLAZE 75 JA 1/10W
R1701	401 162 4101	MT-GLAZE 5.6K JA 1/10W
R1702	401 152 3206	MT-GLAZE 330 JA 1/10W
R1703	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1707	401 162 3104	MT-GLAZE 3.3K JA 1/10W
R1708	401 162 3104	MT-GLAZE 3.3K JA 1/10W
R1709	401 255 6500	MT-GLAZE 100 JA 1/10W
R1711	401 255 8702	MT-GLAZE 22 JA 1/10W
R1712	401 255 8702	MT-GLAZE 22 JA 1/10W
R1713	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1714	401 150 6209	MT-GLAZE 1K JA 1/10W

Schematic Location	Part No.	Description
R1716	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1717	401 162 3401	MT-GLAZE 39K JA 1/10W
R1718	401 256 6301	MT-GLAZE 47K JA 1/10W
R1719	401 255 6500	MT-GLAZE 100 JA 1/10W
R1721	401 162 3104	MT-GLAZE 3.3K JA 1/10W
R1772	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1773	401 255 8702	MT-GLAZE 22 JA 1/10W
R1774	401 255 8702	MT-GLAZE 22 JA 1/10W
R1775	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1776	401 255 8702	MT-GLAZE 22 JA 1/10W
R1777	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R1853	401 150 5905	MT-GLAZE 10K JA 1/10W
R2001	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2002	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2005	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2006	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2007	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2008	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2009	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2010	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2011	401 256 5809	MT-GLAZE 270K JA 1/10W
R2012	401 255 6500	MT-GLAZE 100 JA 1/10W
R2013	401 256 3607	MT-GLAZE 15K JA 1/10W
R2014	401 256 3607	MT-GLAZE 15K JA 1/10W
R2015	401 256 3607	MT-GLAZE 15K JA 1/10W
R2016	401 256 3607	MT-GLAZE 15K JA 1/10W
R2017	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2018	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2019	401 162 2404	MT-GLAZE 1.2K JA 1/10W
R2020	401 255 6500	MT-GLAZE 100 JA 1/10W
R2021	401 255 6500	MT-GLAZE 100 JA 1/10W
R2022	401 256 3805	MT-GLAZE 1.5K JA 1/10W
R2023	401 256 3508	MT-GLAZE 150K JA 1/10W
R2024	401 162 3104	MT-GLAZE 3.3K JA 1/10W
R2028	645 004 6650	INDUCTOR 600 OHM
R2030	401 150 5905	MT-GLAZE 10K JA 1/10W
R2045	401 150 6209	MT-GLAZE 1K JA 1/10W
R2046	401 150 6209	MT-GLAZE 1K JA 1/10W
R2047	401 150 6209	MT-GLAZE 1K JA 1/10W
R2048	401 150 6209	MT-GLAZE 1K JA 1/10W
R2049	401 150 6209	MT-GLAZE 1K JA 1/10W
R2050	401 150 6209	MT-GLAZE 1K JA 1/10W
R2051	401 150 6209	MT-GLAZE 1K JA 1/10W
R2052	401 150 6209	MT-GLAZE 1K JA 1/10W
R2053	401 150 6209	MT-GLAZE 1K JA 1/10W
R2054	401 150 6209	MT-GLAZE 1K JA 1/10W
R2055	401 150 6209	MT-GLAZE 1K JA 1/10W
R2056	401 150 6209	MT-GLAZE 1K JA 1/10W
R2057	401 150 6209	MT-GLAZE 1K JA 1/10W
R2058	401 150 6209	MT-GLAZE 1K JA 1/10W
R2059	401 150 6209	MT-GLAZE 1K JA 1/10W
R2060	401 150 6209	MT-GLAZE 1K JA 1/10W
R2061	401 150 6209	MT-GLAZE 1K JA 1/10W
R2062	401 150 6209	MT-GLAZE 1K JA 1/10W
R2063	401 150 6209	MT-GLAZE 1K JA 1/10W
R2064	401 150 6209	MT-GLAZE 1K JA 1/10W
R2065	401 150 6209	MT-GLAZE 1K JA 1/10W
R2066	401 150 6209	MT-GLAZE 1K JA 1/10W
R2067	401 150 6209	MT-GLAZE 1K JA 1/10W

Schematic Location	Part No.	Description
R2068	401 150 6209	MT-GLAZE 1K JA 1/10W
R2069	401 150 6209	MT-GLAZE 1K JA 1/10W
R2070	401 150 6209	MT-GLAZE 1K JA 1/10W
R2071	401 150 6209	MT-GLAZE 1K JA 1/10W
R2072	401 150 6209	MT-GLAZE 1K JA 1/10W
R2073	401 150 6209	MT-GLAZE 1K JA 1/10W
R2074	401 150 6209	MT-GLAZE 1K JA 1/10W
R2075	401 150 6209	MT-GLAZE 1K JA 1/10W
R2076	401 150 6209	MT-GLAZE 1K JA 1/10W
R2077	401 150 6209	MT-GLAZE 1K JA 1/10W
R2078	401 150 6209	MT-GLAZE 1K JA 1/10W
R2079	401 150 6209	MT-GLAZE 1K JA 1/10W
R2080	401 150 6209	MT-GLAZE 1K JA 1/10W
R2081	401 150 6209	MT-GLAZE 1K JA 1/10W
R2082	401 150 6209	MT-GLAZE 1K JA 1/10W
R2083	401 150 6209	MT-GLAZE 1K JA 1/10W
R2084	401 150 6209	MT-GLAZE 1K JA 1/10W
R2085	401 150 6209	MT-GLAZE 1K JA 1/10W
R2086	401 150 6209	MT-GLAZE 1K JA 1/10W
R2087	401 150 6209	MT-GLAZE 1K JA 1/10W
R2088	401 150 6209	MT-GLAZE 1K JA 1/10W
R2089	401 150 6209	MT-GLAZE 1K JA 1/10W
R2090	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2101	401 162 3609	MT-GLAZE 470 JA 1/10W
R2103	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2105	401 150 6209	MT-GLAZE 1K JA 1/10W
R2106	401 162 3708	MT-GLAZE 4.7K JA 1/10W
R2107	401 256 6905	MT-GLAZE 680 JA 1/10W
R2108	401 256 4109	MT-GLAZE 56 JA 1/10W
R2109	401 150 6100	MT-GLAZE 2.2K JA 1/10W
R2110	401 150 5905	MT-GLAZE 10K JA 1/10W
R2112	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2113	401 256 6905	MT-GLAZE 680 JA 1/10W
R2116	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2117	401 256 6905	MT-GLAZE 680 JA 1/10W
R2118	401 150 6100	MT-GLAZE 2.2K JA 1/10W
R2119	401 162 3609	MT-GLAZE 470 JA 1/10W
R2120	401 256 4109	MT-GLAZE 56 JA 1/10W
R2121	401 256 6301	MT-GLAZE 47K JA 1/10W
R2122	401 162 3401	MT-GLAZE 39K JA 1/10W
R2123	401 256 6905	MT-GLAZE 680 JA 1/10W
R2125	401 256 6905	MT-GLAZE 680 JA 1/10W
R2126	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2127	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2128	401 256 4109	MT-GLAZE 56 JA 1/10W
R2129	401 256 4109	MT-GLAZE 56 JA 1/10W
R2130	401 256 4109	MT-GLAZE 56 JA 1/10W
R2131	401 256 6905	MT-GLAZE 680 JA 1/10W
R2132	401 256 6905	MT-GLAZE 680 JA 1/10W
R2149	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2150	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2154	645 004 6650	INDUCTOR 600 OHM
R2155	645 004 6650	INDUCTOR 600 OHM
R2156	645 004 6650	INDUCTOR 600 OHM
R2157	645 004 6650	INDUCTOR 600 OHM
R2158	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2159	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2160	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2161	401 150 6001	MT-GLAZE 0.000 ZA 1/10W

Schematic Location	Part No.	Description
R2162	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2163	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2164	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2165	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2166	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2167	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2168	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2169	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2170	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2171	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2172	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2173	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2174	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2175	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2176	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2177	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2178	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2179	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2180	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R2181	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R3251	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R3252	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R3253	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R3254	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R4101	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R4102	401 150 6100	MT-GLAZE 2.2K JA 1/10W
R4103	401 255 6500	MT-GLAZE 100 JA 1/10W
R4104	401 256 4109	MT-GLAZE 56 JA 1/10W
R4106	401 255 6500	MT-GLAZE 100 JA 1/10W
R4107	401 256 5908	MT-GLAZE 2.7K JA 1/10W
R4108	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R4113	401 255 8702	MT-GLAZE 22 JA 1/10W
R4116	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R4117	401 150 6100	MT-GLAZE 2.2K JA 1/10W
R4122	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R4123	401 152 3206	MT-GLAZE 330 JA 1/10W
R4124	401 150 6100	MT-GLAZE 2.2K JA 1/10W
R4127	401 256 4109	MT-GLAZE 56 JA 1/10W
R4136	401 255 8702	MT-GLAZE 22 JA 1/10W
R4138	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R4139	401 150 6100	MT-GLAZE 2.2K JA 1/10W
R4141	401 150 6100	MT-GLAZE 2.2K JA 1/10W
R4144	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R4145	401 150 6100	MT-GLAZE 2.2K JA 1/10W
R4146	401 152 3206	MT-GLAZE 330 JA 1/10W
R4147	401 150 6100	MT-GLAZE 2.2K JA 1/10W
R4148	401 256 4109	MT-GLAZE 56 JA 1/10W
R4149	401 256 4109	MT-GLAZE 56 JA 1/10W
R4157	401 255 8702	MT-GLAZE 22 JA 1/10W
R4159	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R4161	401 150 6100	MT-GLAZE 2.2K JA 1/10W
R4162	401 150 6100	MT-GLAZE 2.2K JA 1/10W
R4164	401 256 4109	MT-GLAZE 56 JA 1/10W
R4166	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R4167	401 152 3206	MT-GLAZE 330 JA 1/10W
R4168	401 150 6100	MT-GLAZE 2.2K JA 1/10W
R4171	401 256 4109	MT-GLAZE 56 JA 1/10W
R4177	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R4179	401 256 0705	MT-GLAZE 33 JA 1/10W

Schematic Location	Part No.	Description
R4181	401 256 0705	MT-GLAZE 33 JA 1/10W
R4182	401 255 8702	MT-GLAZE 22 JA 1/10W
R4183	401 255 8702	MT-GLAZE 22 JA 1/10W
R4184	401 255 8702	MT-GLAZE 22 JA 1/10W
R7001	401 150 5905	MT-GLAZE 10K JA 1/10W
R7002	401 150 5905	MT-GLAZE 10K JA 1/10W
R7004	645 004 6650	INDUCTOR 600 OHM
R7006	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R7008	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R7009	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R7010	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R7012	401 255 8702	MT-GLAZE 22 JA 1/10W
R7014	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R7020	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R7021	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R7022	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R7023	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R7026	401 256 5601	MT-GLAZE 47 JA 1/10W
R7027	401 256 5601	MT-GLAZE 47 JA 1/10W
R7028	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R7029	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R7030	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R7031	401 256 5601	MT-GLAZE 47 JA 1/10W
R7032	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R7033	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R8003	401 256 0309	MT-GLAZE 820 JA 1/10W
R8009	401 256 1702	MT-GLAZE 33K JA 1/10W
R8017	401 162 3005	MT-GLAZE 22K JA 1/10W
R8018	401 255 6500	MT-GLAZE 100 JA 1/10W
R8022	401 255 6500	MT-GLAZE 100 JA 1/10W
R8031	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R8032	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R8033	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R8034	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R8035	401 255 6500	MT-GLAZE 100 JA 1/10W
R8037	401 256 1702	MT-GLAZE 33K JA 1/10W
R8038	401 150 5905	MT-GLAZE 10K JA 1/10W
R8040	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R8233	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R8234	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
R8235	401 150 6001	MT-GLAZE 0.000 ZA 1/10W

SURGE-ABSORBERS

SC801	645 076 3502	SURGE-ABSORBER
SC802	645 076 3502	SURGE-ABSORBER
SC803	645 076 3502	SURGE-ABSORBER
SC804	645 076 3502	SURGE-ABSORBER
SC805	645 076 3502	SURGE-ABSORBER
SC806	645 076 3502	SURGE-ABSORBER

CRYSTAL/FILTERS

X303	645 024 7859	OSC, CRYSTAL 16.000MHZ
X840	645 036 3788	OSC, CERAMIC 16.0MHZ
X1701	645 053 7677	OSC, CERAMIC 503.0KHZ
X2010	645 066 4069	OSC, CRYSTAL 42MHZ

Schematic Location	Part No.	Description
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MISCELLANEOUS

★ A201	645 067 2064	TUNER, TU/IF/DEC
A5501	610 318 3282	ASSY, PWB, MAIN J3TR
K802	645 037 9956	SOCKET, DIN 9P
K1001	645 068 2230	JACK, RCA-3
	652 001 5081	JACK, RCA-3
K1002	645 071 4511	TERMINAL, BOARD
K1003	645 068 0571	JACK, RCA-5(6-1)
K1004	645 068 0571	JACK, RCA-5(6-1)
SW801	645 055 6678	SWITCH, PUSH 1P-1TX1

FILTER PC BOARD

CAPACITORS

★ C601	404 081 4702	MT-POLYEST	0.22U K	275V
★ C602	404 096 0904	MT-POLYEST	0.47U K	275V
★ C606	404 088 3104	CERAMIC	1000P K	250V
★ C607	404 088 3104	CERAMIC	1000P K	250V

RESISTORS

R601	401 238 1003	MT-GLAZE	120K JA	1/2W
R602	401 238 1003	MT-GLAZE	120K JA	1/2W

MISCELLANEOUS

A601A	610 319 1164	ASSY, PWB, FILTER-J3TR
★ F601	423 027 2602	FUSE 250V 10A
F601A	645 006 4760	HOLDER, FUSE
F601B	645 006 4760	HOLDER, FUSE
K601	645 059 5356	UNIT, NOISE FILTER
★ LF601	645 075 2452	LINE FILTER
★ LF602	645 075 2452	LINE FILTER
★ SC601	645 059 3130	SURGE-ABSORBER
★ VA601	408 018 9808	VARISTOR ENC471D-10AS
★ VA602	408 023 5802	VARISTOR ENC271D-10AS

CONTROL PC BOARD

CAPACITORS

C1902	403 113 3805	CERAMIC	1000P K	50V
C1903	403 368 7306	CERAMIC	10U Z	6.3V
C1904	403 368 7306	CERAMIC	10U Z	6.3V

RESISTORS

JP191	401 150 6001	MT-GLAZE	0.000 ZA	1/10W
R1900	401 150 6001	MT-GLAZE	0.000 ZA	1/10W
R1916	401 255 6500	MT-GLAZE	100 JA	1/10W
R1917	401 255 6500	MT-GLAZE	100 JA	1/10W

Schematic Location	Part No.	Description
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MISCELLANEOUS

A601B	610 319 1171	ASSY, PWB, CONTROL-J3TR
A1902	645 034 5029	UNIT, REMOCON RECEIVER
D1903	407 033 3402	LED SLP-381C-51
D1903A	645 068 1981	SPACER
SC1901	645 076 3502	SURGE-ABSORBER
SC1902	645 076 3502	SURGE-ABSORBER

KEY PC BOARD

RESISTORS

R1951	401 255 6500	MT-GLAZE	100 JA	1/10W
R1952	401 150 5905	MT-GLAZE	10K JA	1/10W
R1953	401 162 4101	MT-GLAZE	5.6K JA	1/10W
R1954	401 256 5908	MT-GLAZE	2.7K JA	1/10W
R1955	401 256 7605	MT-GLAZE	3.9K JA	1/10W
R1956	401 162 4101	MT-GLAZE	5.6K JA	1/10W

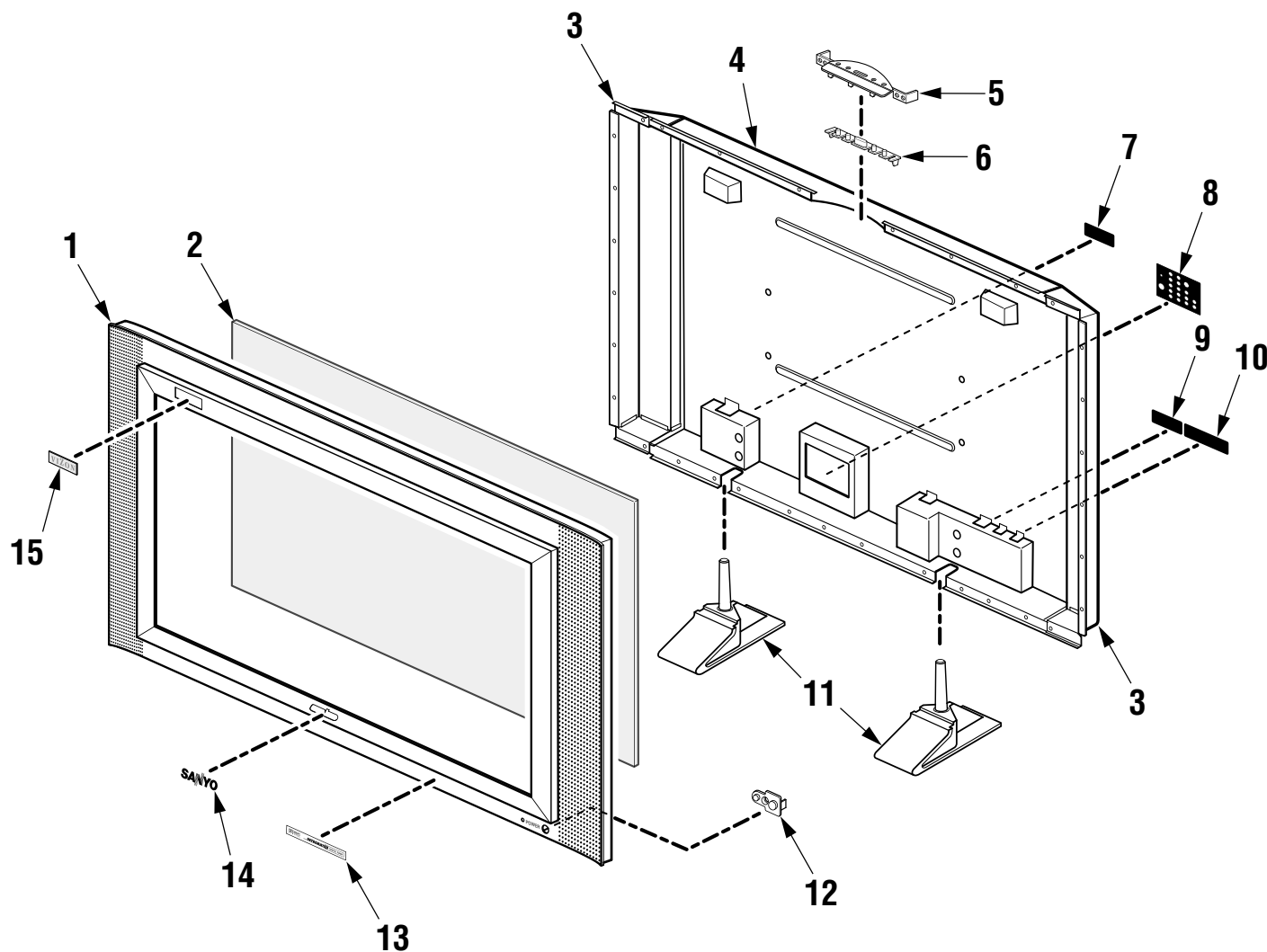
SWITCHES

SW1951	645 026 2791	SWITCH, PUSH 1P-1TX1
SW1952	645 026 2791	SWITCH, PUSH 1P-1TX1
SW1953	645 026 2791	SWITCH, PUSH 1P-1TX1
SW1954	645 026 2791	SWITCH, PUSH 1P-1TX1
SW1955	645 026 2791	SWITCH, PUSH 1P-1TX1

MISCELLANEOUS

A601C	610 319 1188	ASSY, PWB, KEYSW-J3TR
C1951	403 279 0106	CERAMIC 0.1U Z 25V
D1951	407 206 5608	ZENER DIODE UDZS10B TE-17
D1956	407 206 5608	ZENER DIODE UDZS10B TE-17
D1957	407 206 5608	ZENER DIODE UDZS10B TE-17
JP1951	401 150 6001	MT-GLAZE 0.000 ZA 1/10W
L1955	645 004 6650	INDUCTOR, 600 OHM

CABINET PARTS LIST



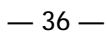
CABINET PARTS LIST

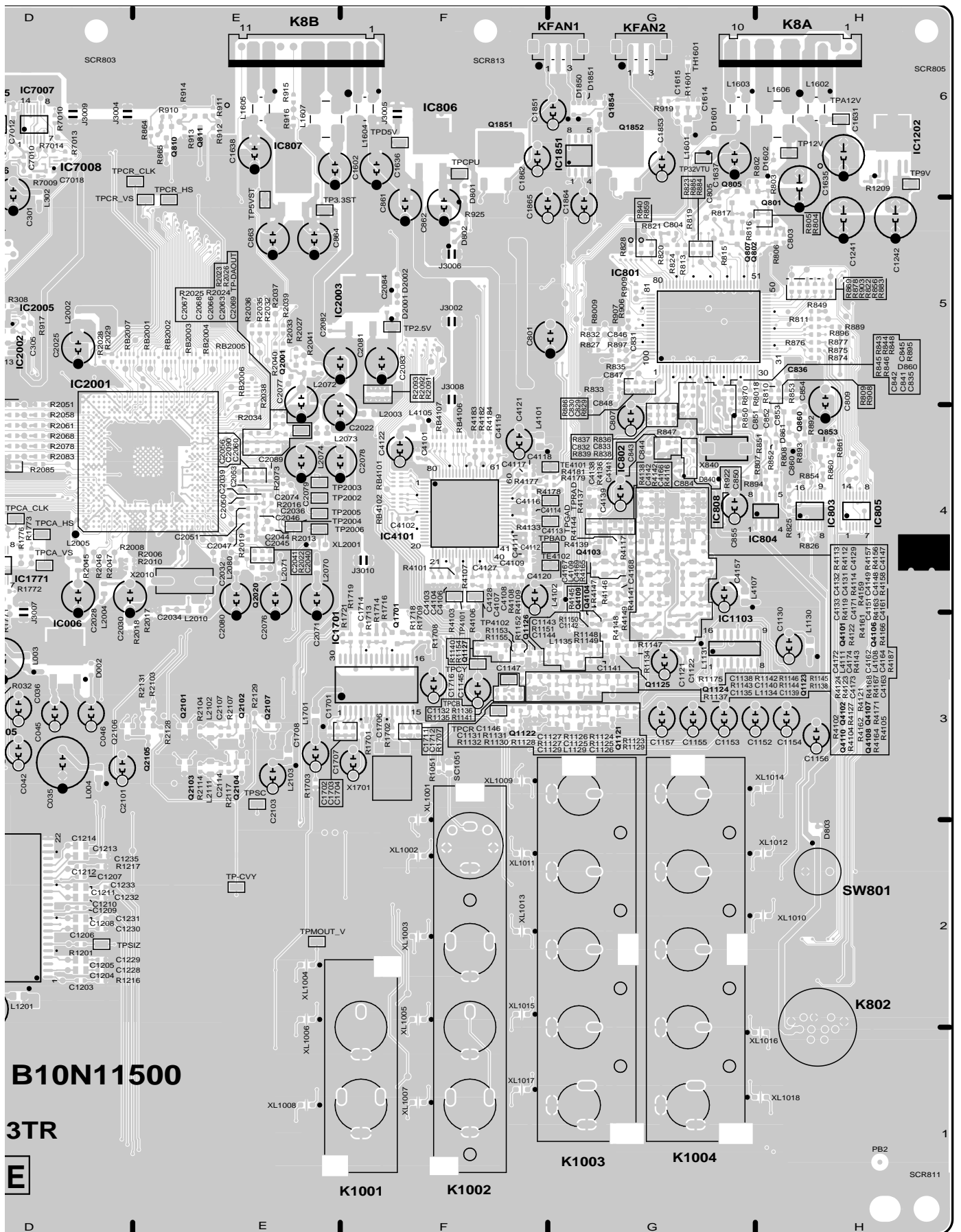
KEY NO.	PARTS NO.	DESCRIPTION
1	610 320 2266	CABINET FRONT
2	645 074 6338	EL902 OPTICAL FILTER
3	610 320 2327	CABINET BACK SIDE (2)
4	610 320 2259	ASSY, CABINET BACK CENTER
5	610 320 2433	PANEL
6	610 312 3301	UNITED BUTTON
7	610 321 0162	DEC SHEET, AC
8	610 320 2365	DEC SHEET, AV
9	610 320 2358	DEC SHEET, TUNER
10	610 320 3775	DEC SHEET DTV
11	610 320 2440	STAND (2)
12	610 320 2334	DEC RC LED
13	610 322 3544	DEC SHEET, DOLBY
14	645 067 1333	BADGE, SANYO
15	610 313 4093	DEC SHEET, VIZON

ACCESSORY PARTS LIST

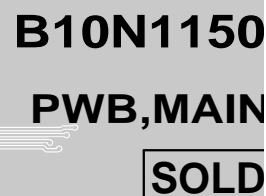
KEY NO.	PARTS NO.	DESCRIPTION
	610 320 0781	OWNERS MANUAL (ENG/SPA)
	610 321 5396	OWNERS MANUAL (FRENCH)
	645 075 0977	ASSY, REMOCON
	610 322 2844	RC-BATTERY LID
	★ 645 054 1162	CORD, POWER-3.0MK

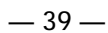
MAIN BOARD PARTS SIDE





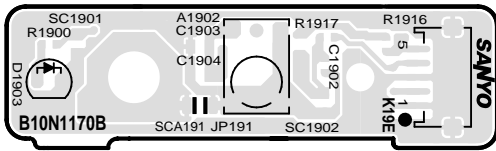
MAIN BOARD FOIL SIDE



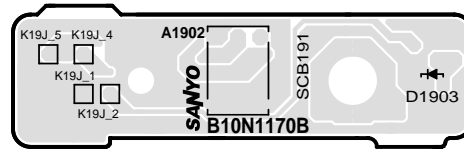


COMPONENT AND TESTPOINT LOCATIONS (Cont.)

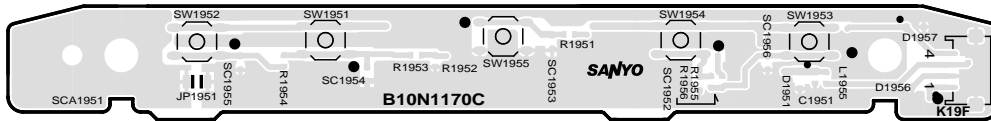
CONTROL BOARD PART SIDE



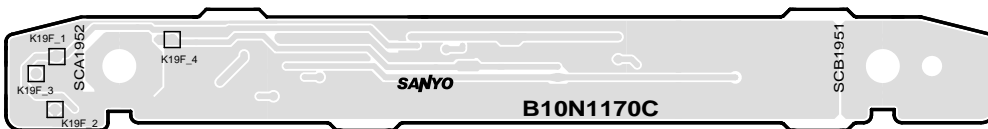
CONTROL BOARD FOIL SIDE



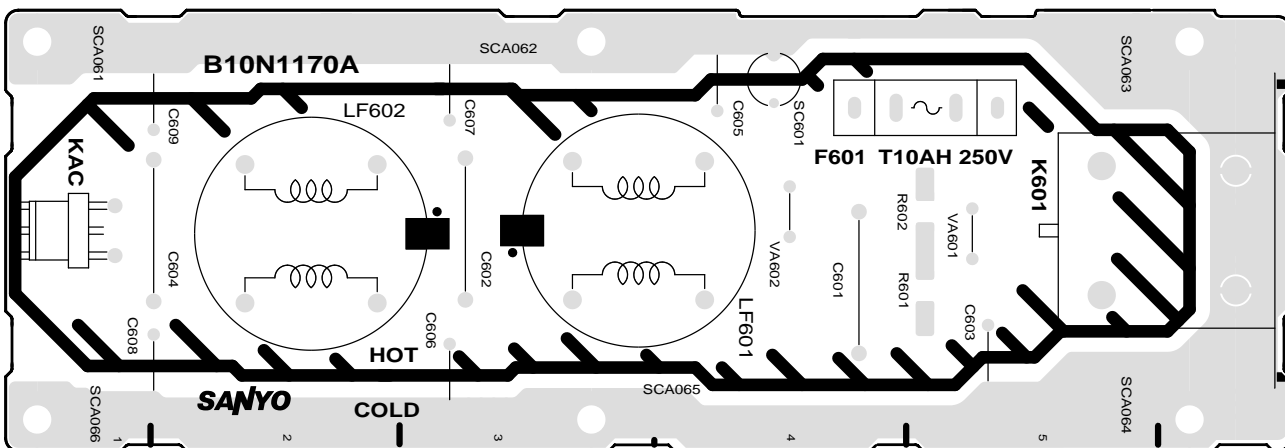
KEY BOARD PART SIDE



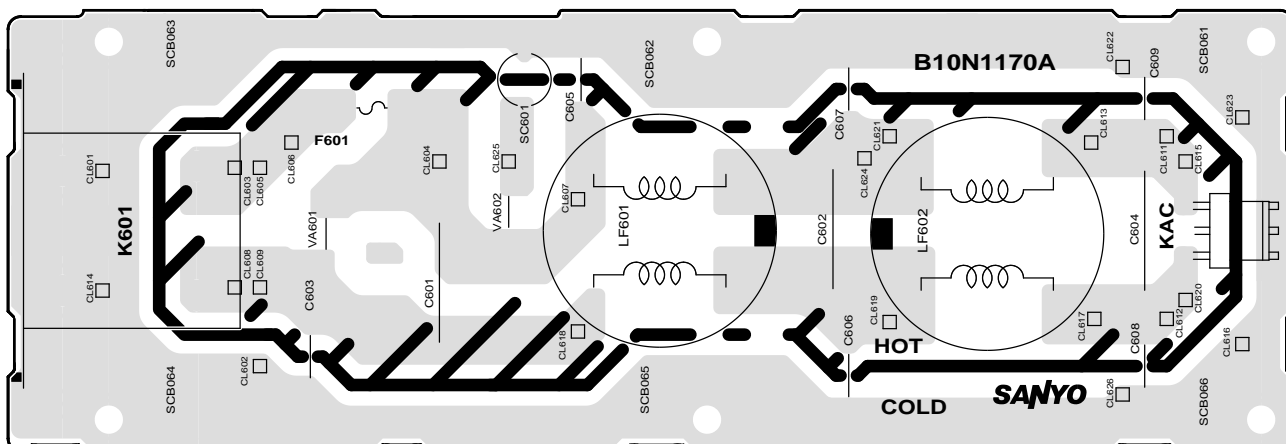
KEY BOARD FOIL SIDE



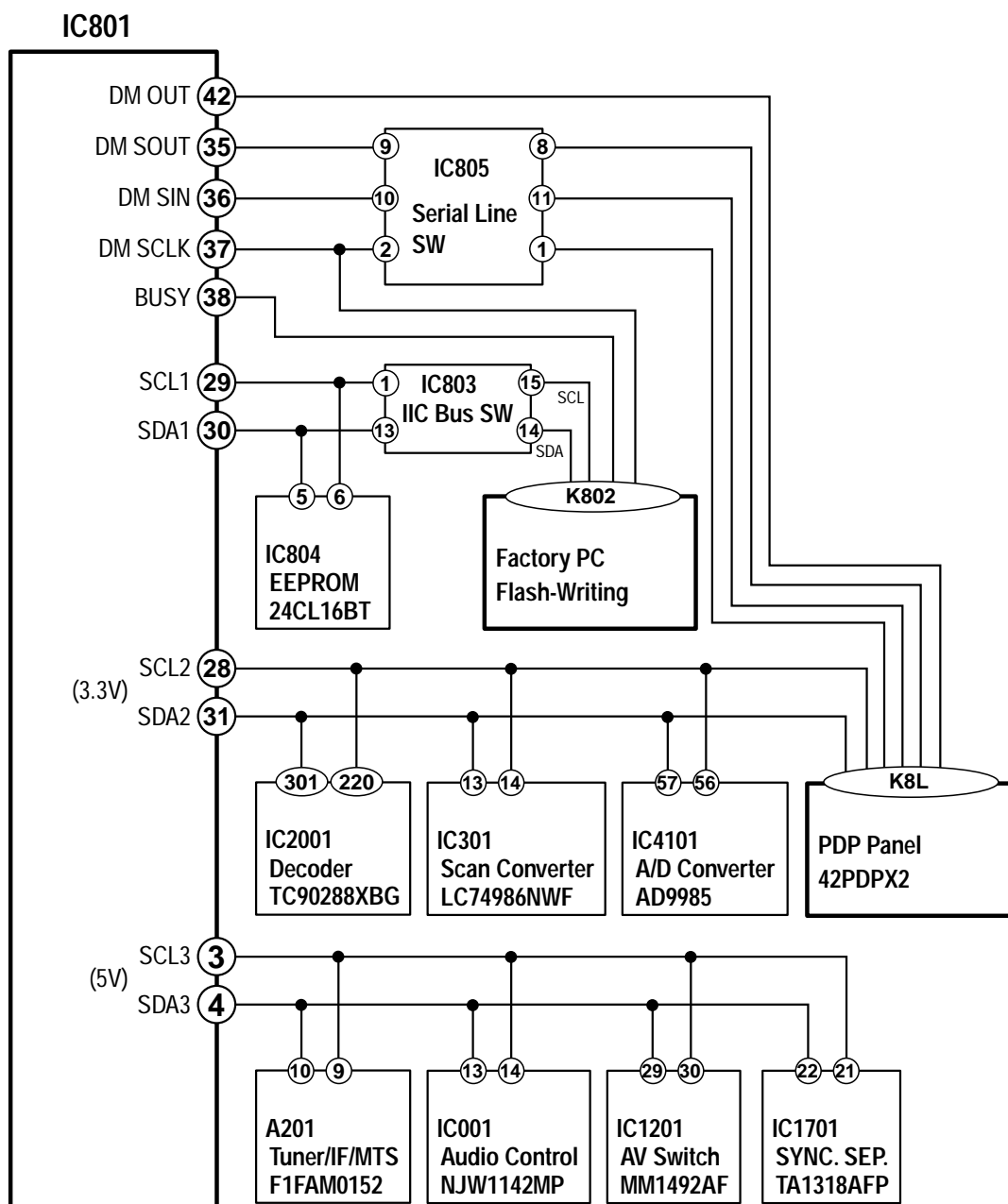
FILTER BOARD PARTS SIDE



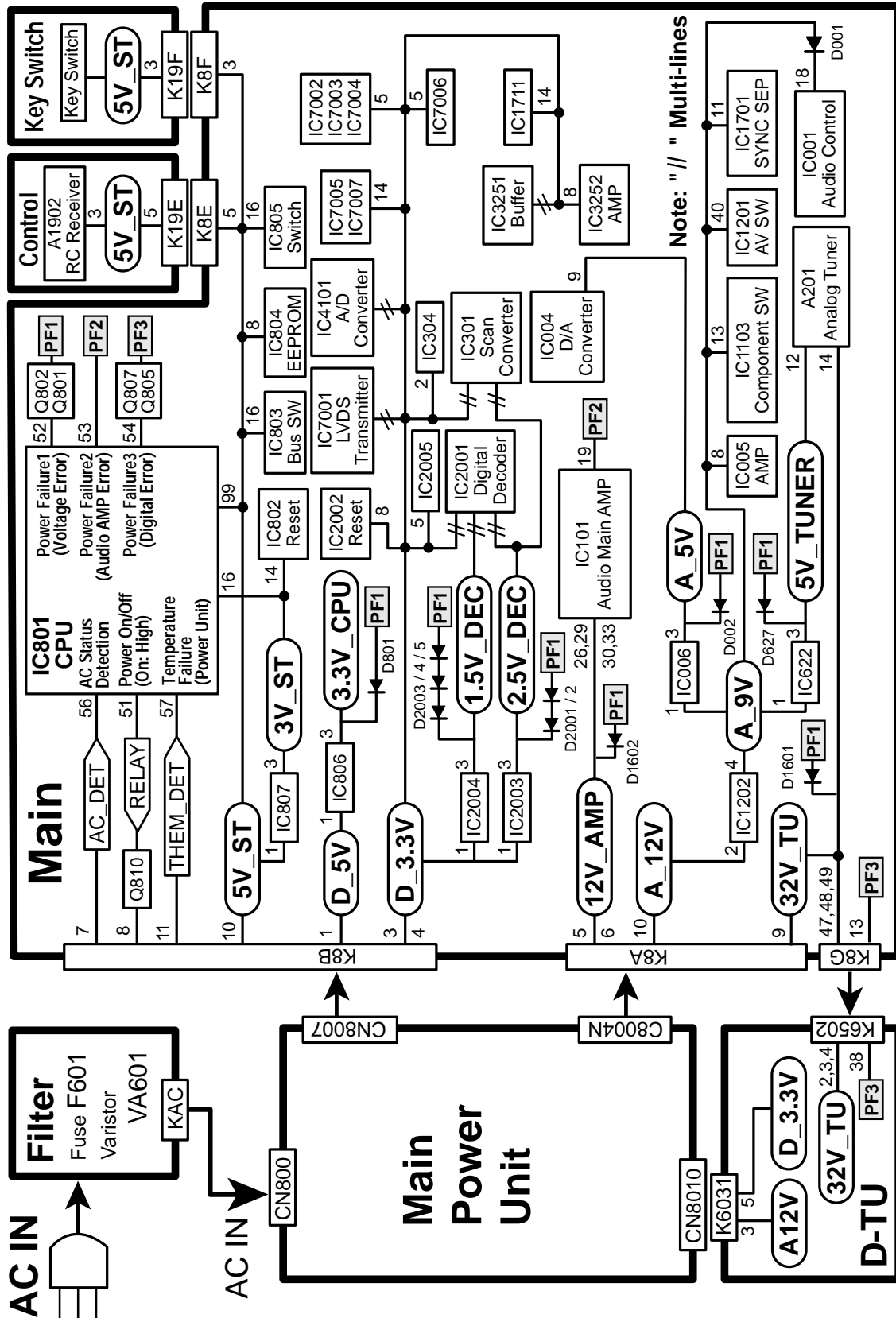
FILTER BOARD FOIL SIDE



BLOCK DIAGRAM DATA BUS LINES

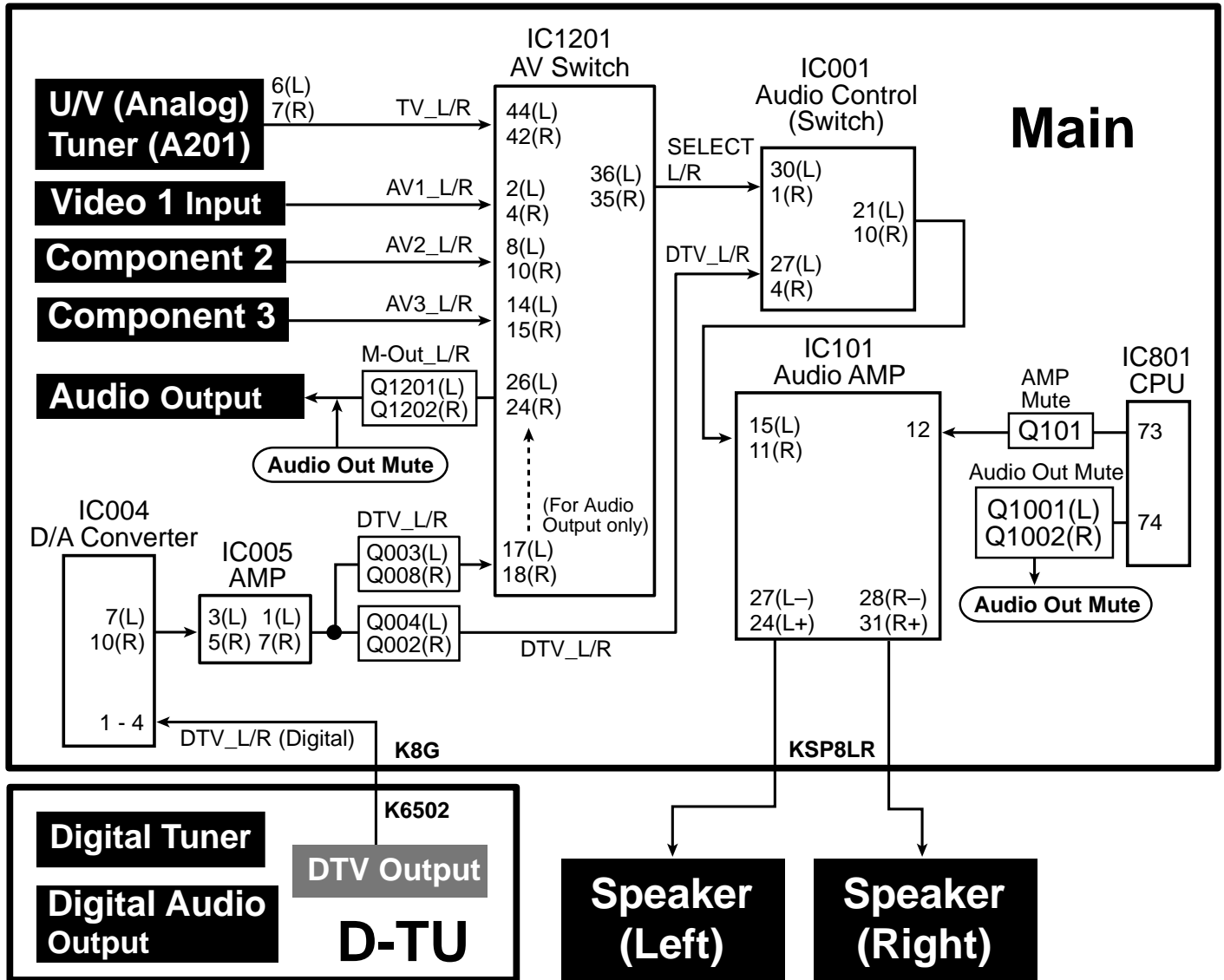


BLOCK DIAGRAM POWER LINES



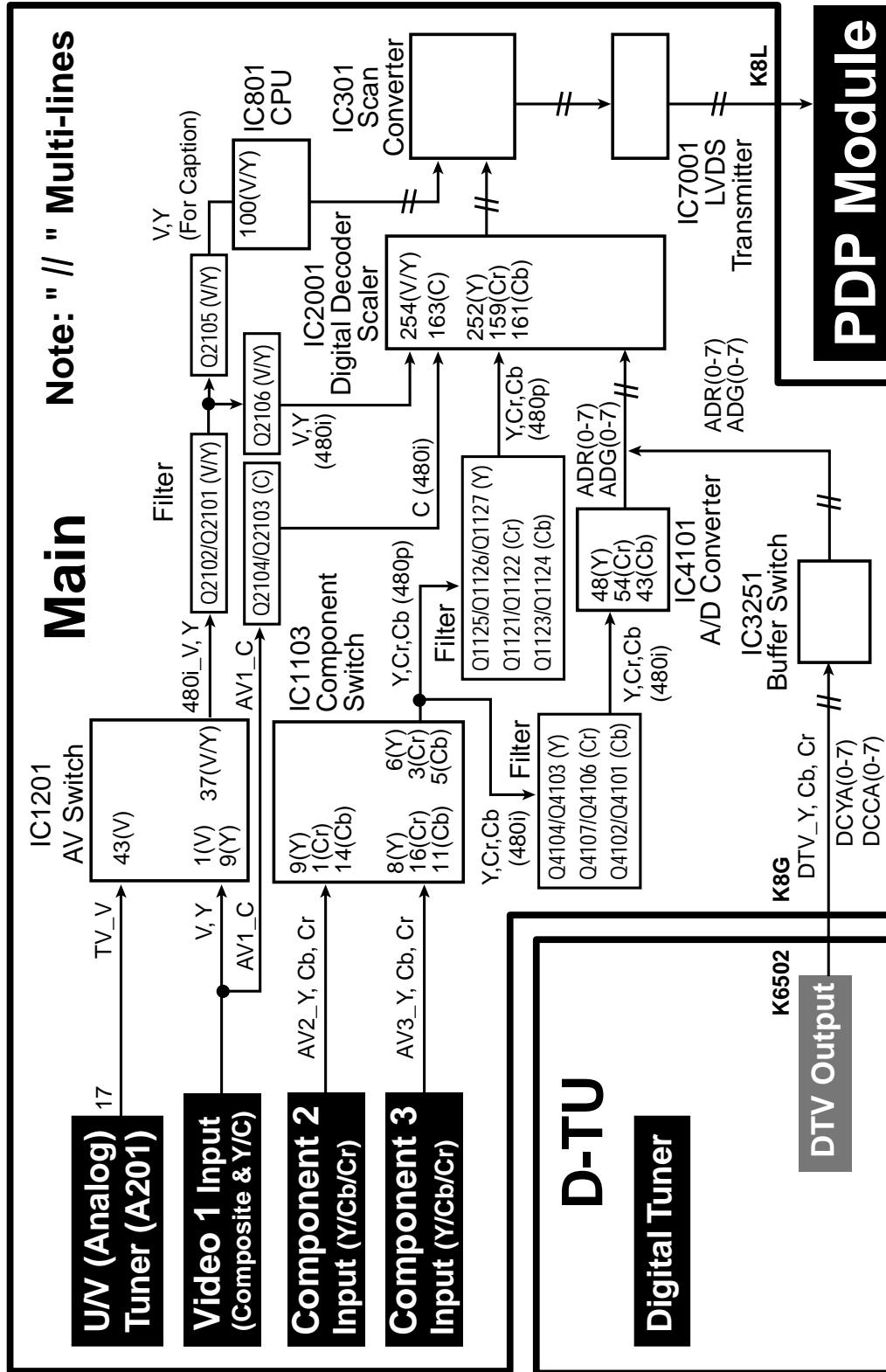
BLOCK DIAGRAM SIGNAL LINES

Audio



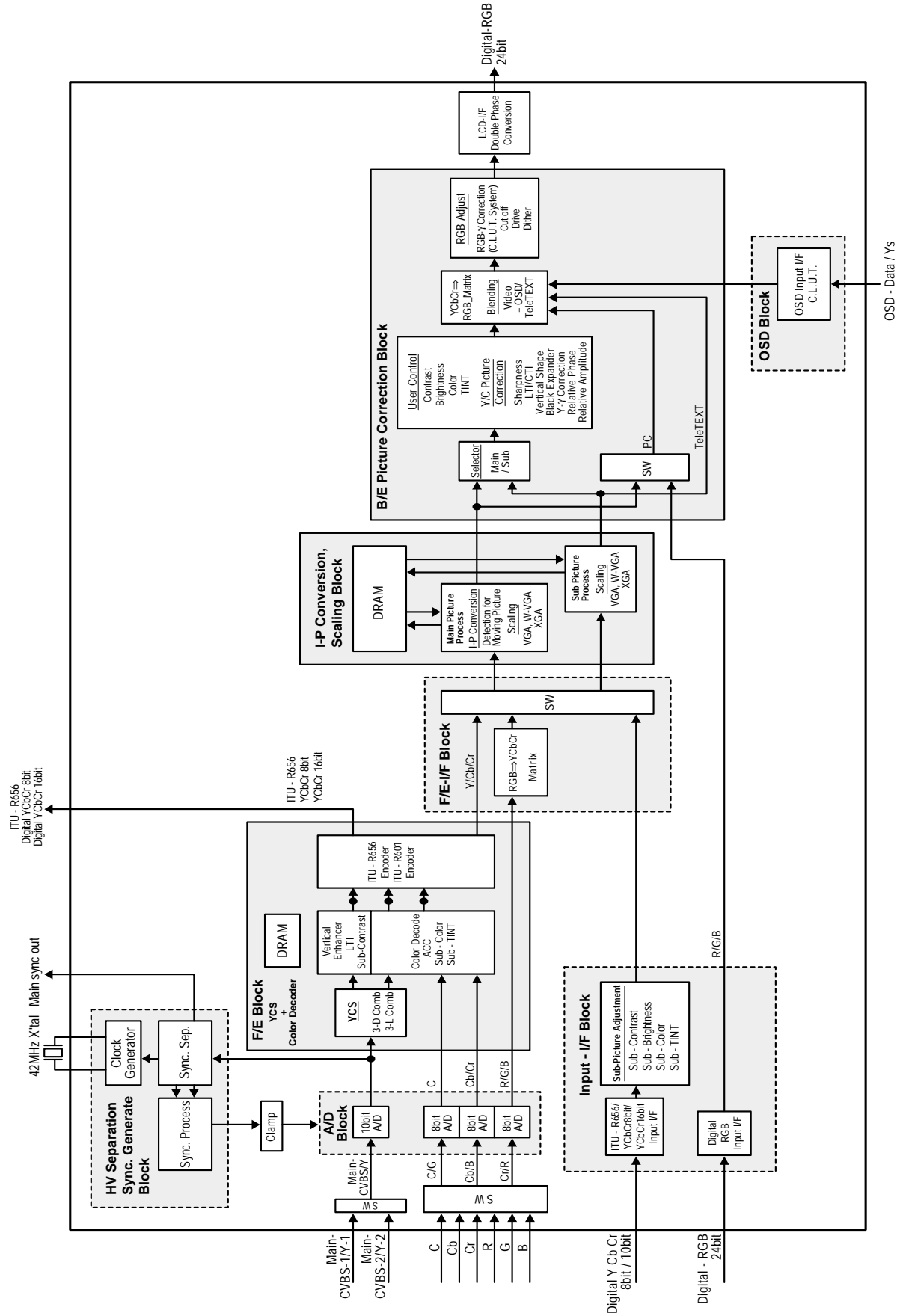
BLOCK DIAGRAM SIGNAL LINES (Cont.)

Video



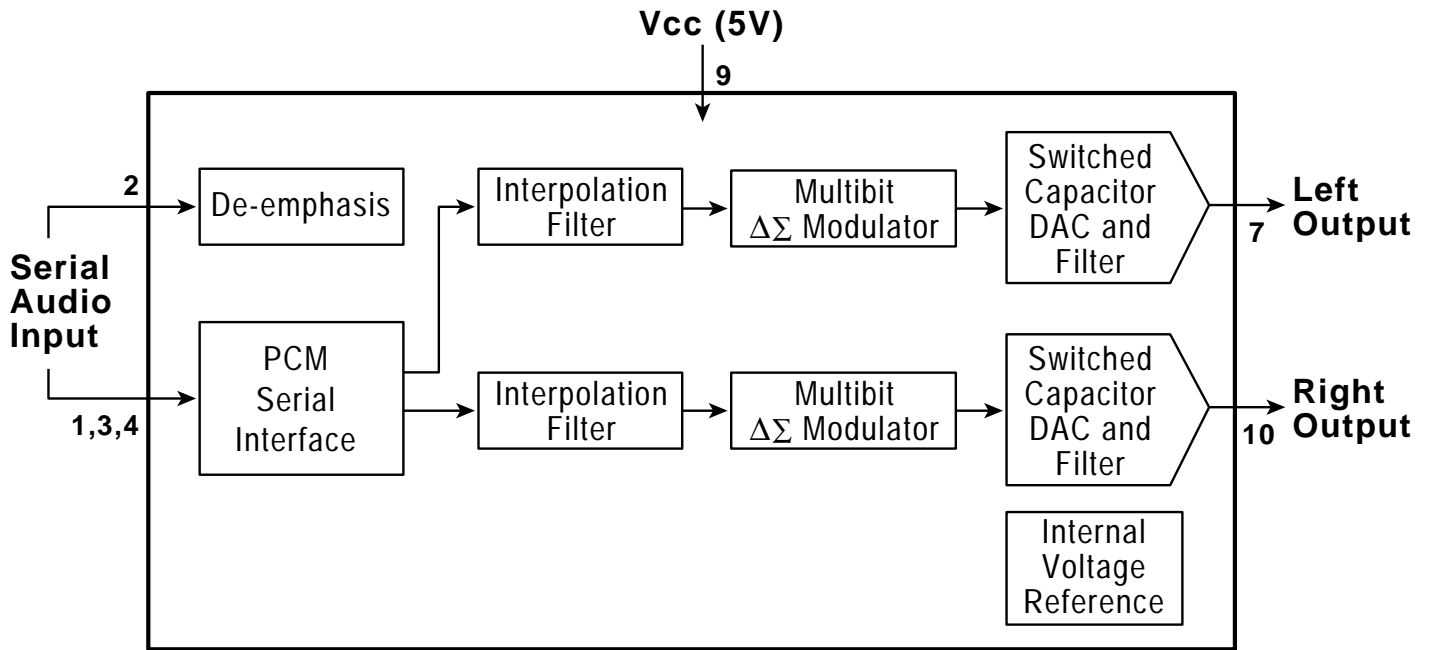
IC BLOCK DIAGRAMS

Digital Decoder (IC2001)



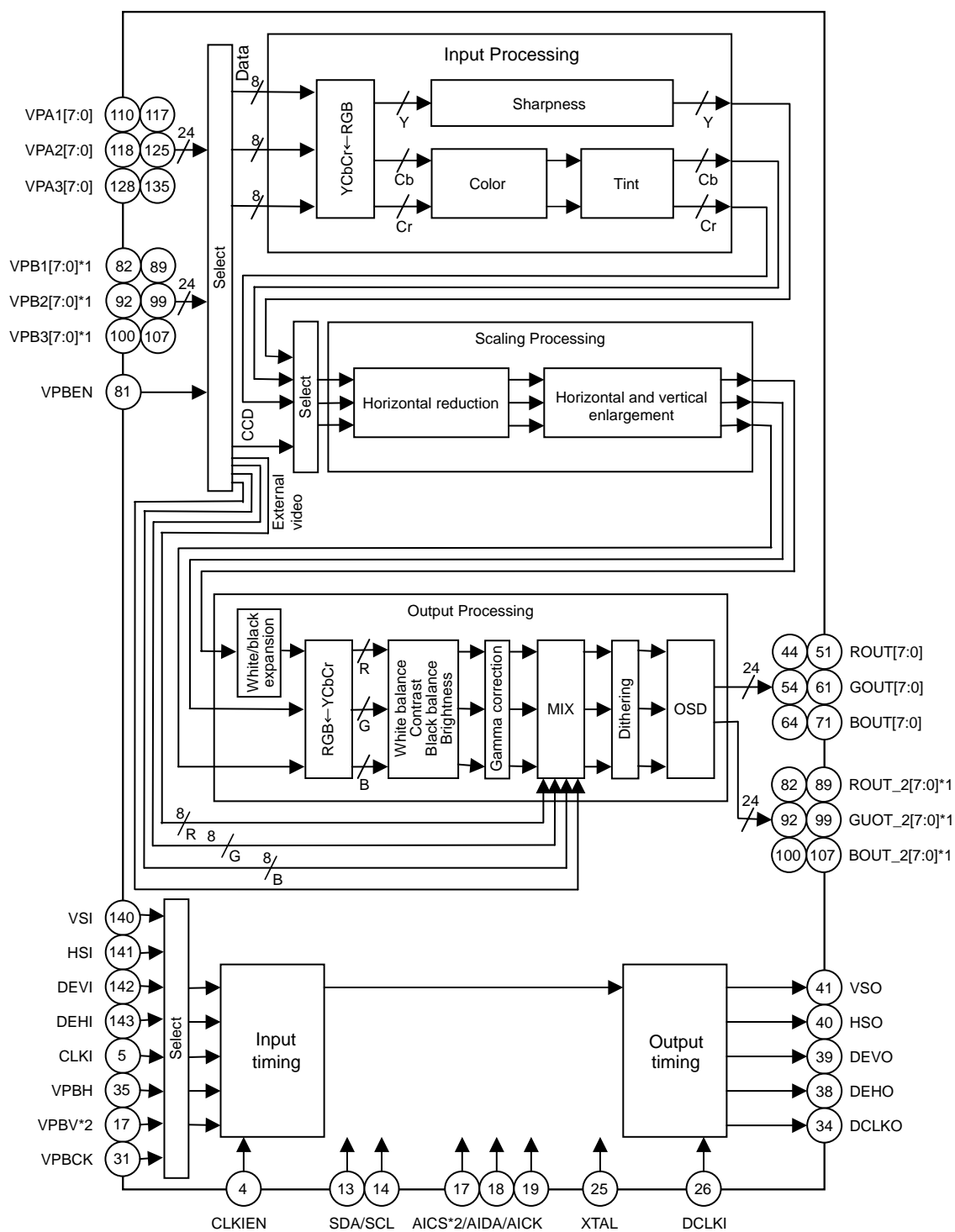
IC BLOCK DIAGRAMS (Cont.)

D/A Converter (IC004)



Scan Converter (IC301)

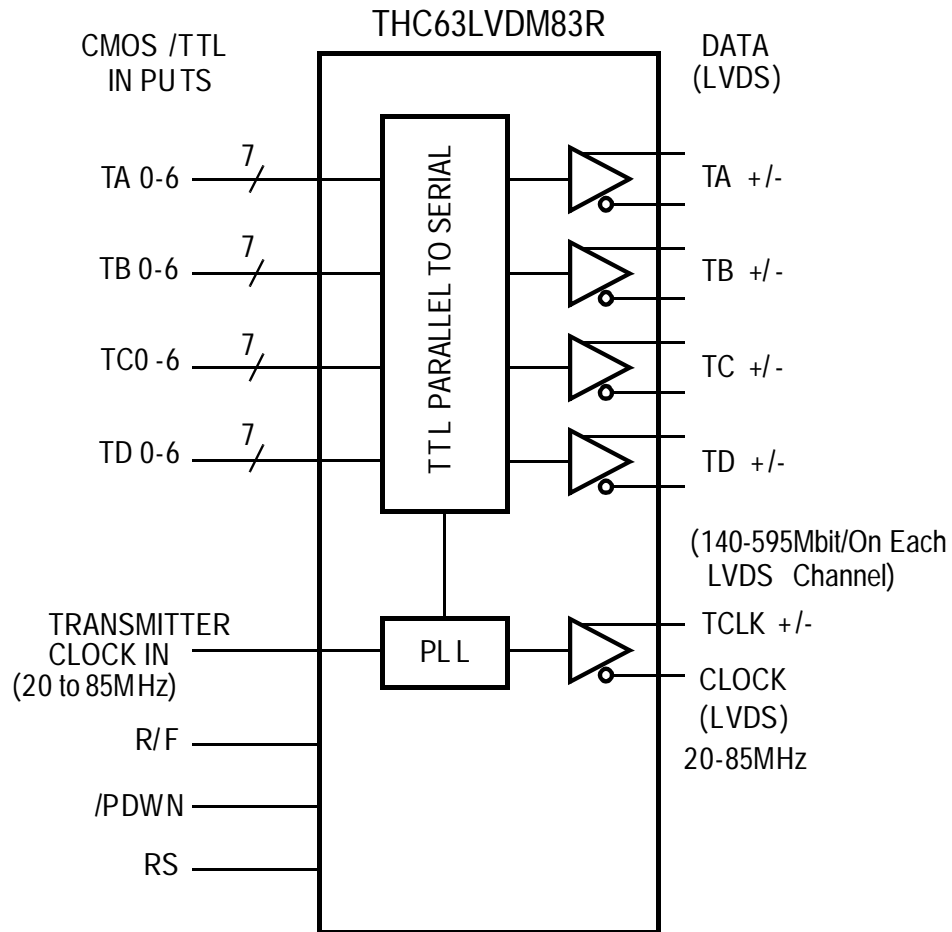
LC74986NWF



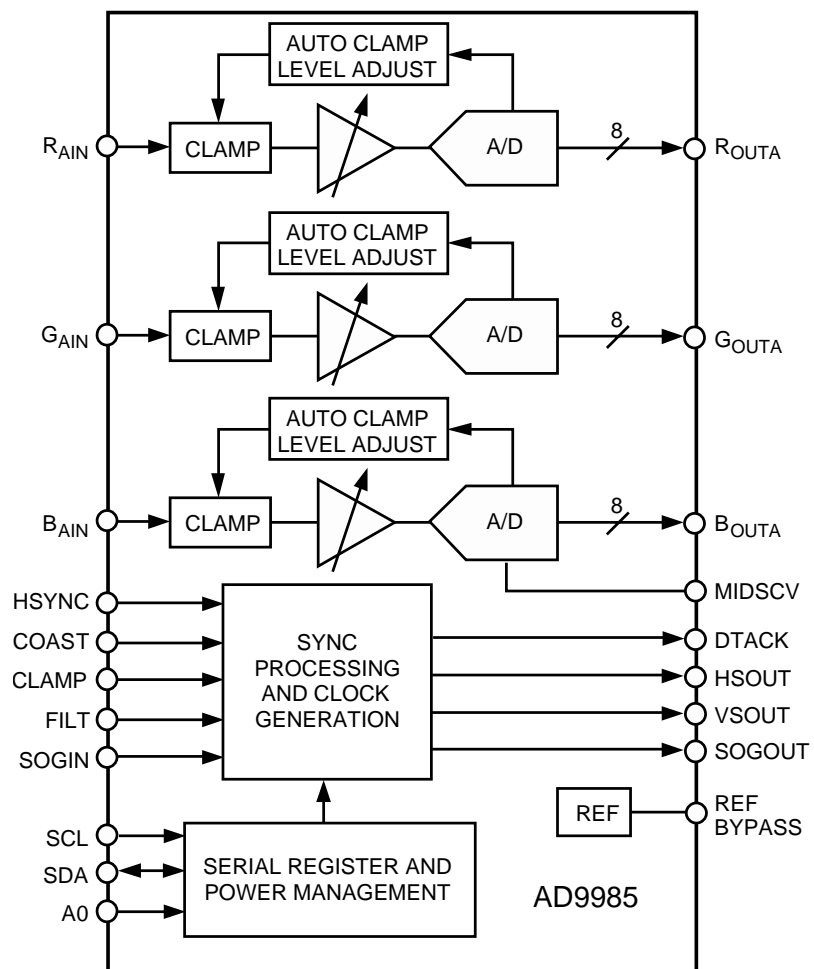
*1, *2: Register selection

IC BLOCK DIAGRAMS (Cont.)

LVDS Transmitter (IC7001)

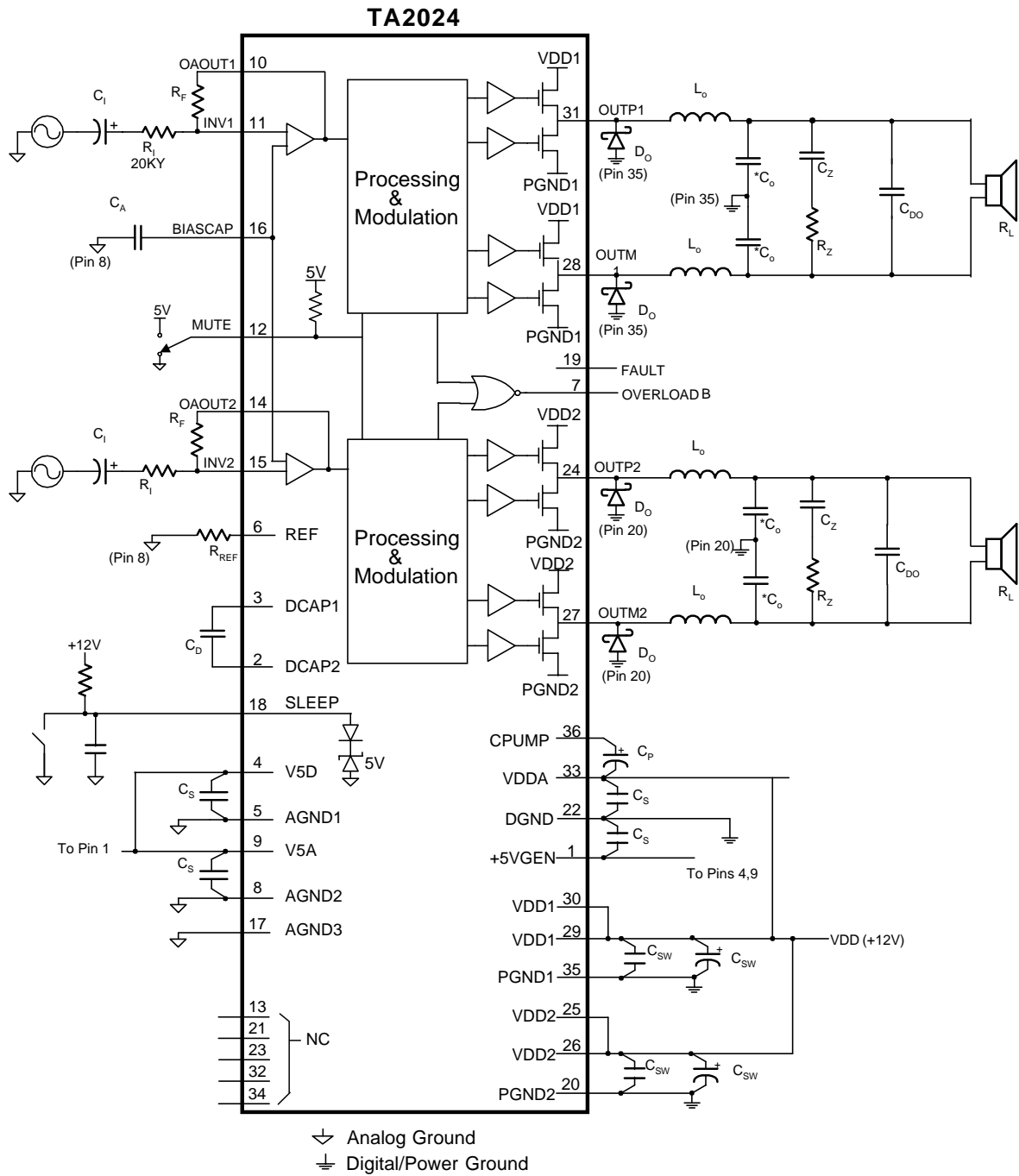


A/D Converter (IC4101)



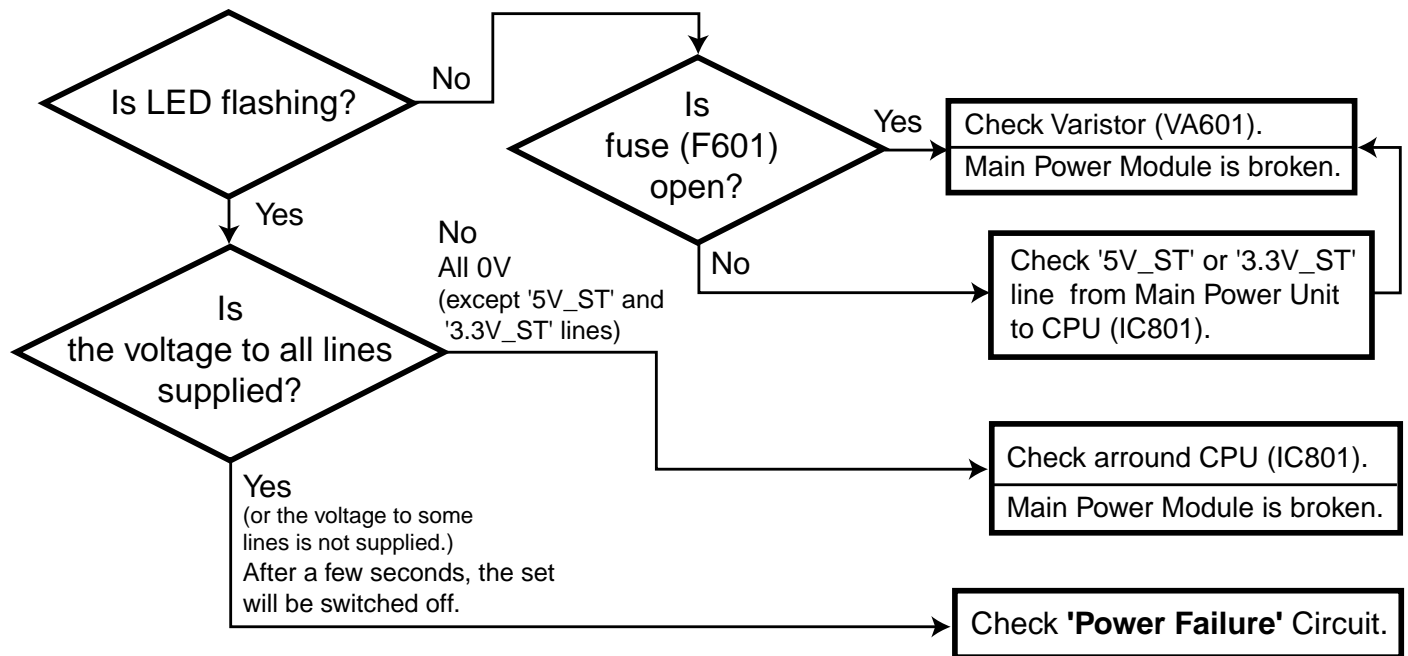
IC BLOCK DIAGRAMS (Cont.)

Audio AMP (IC101)



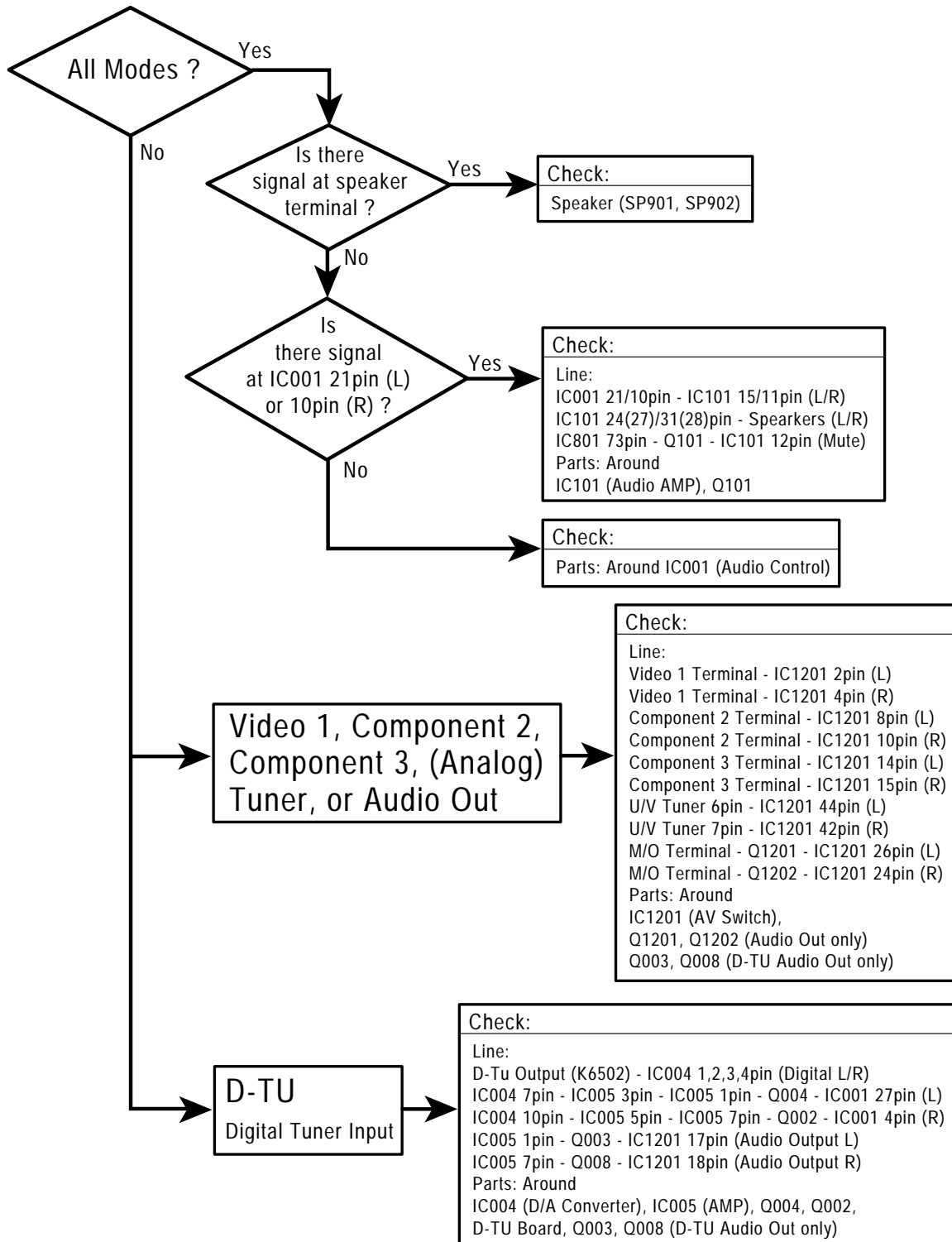
TROUBLESHOOTING FLOW CHARTS

NO POWER

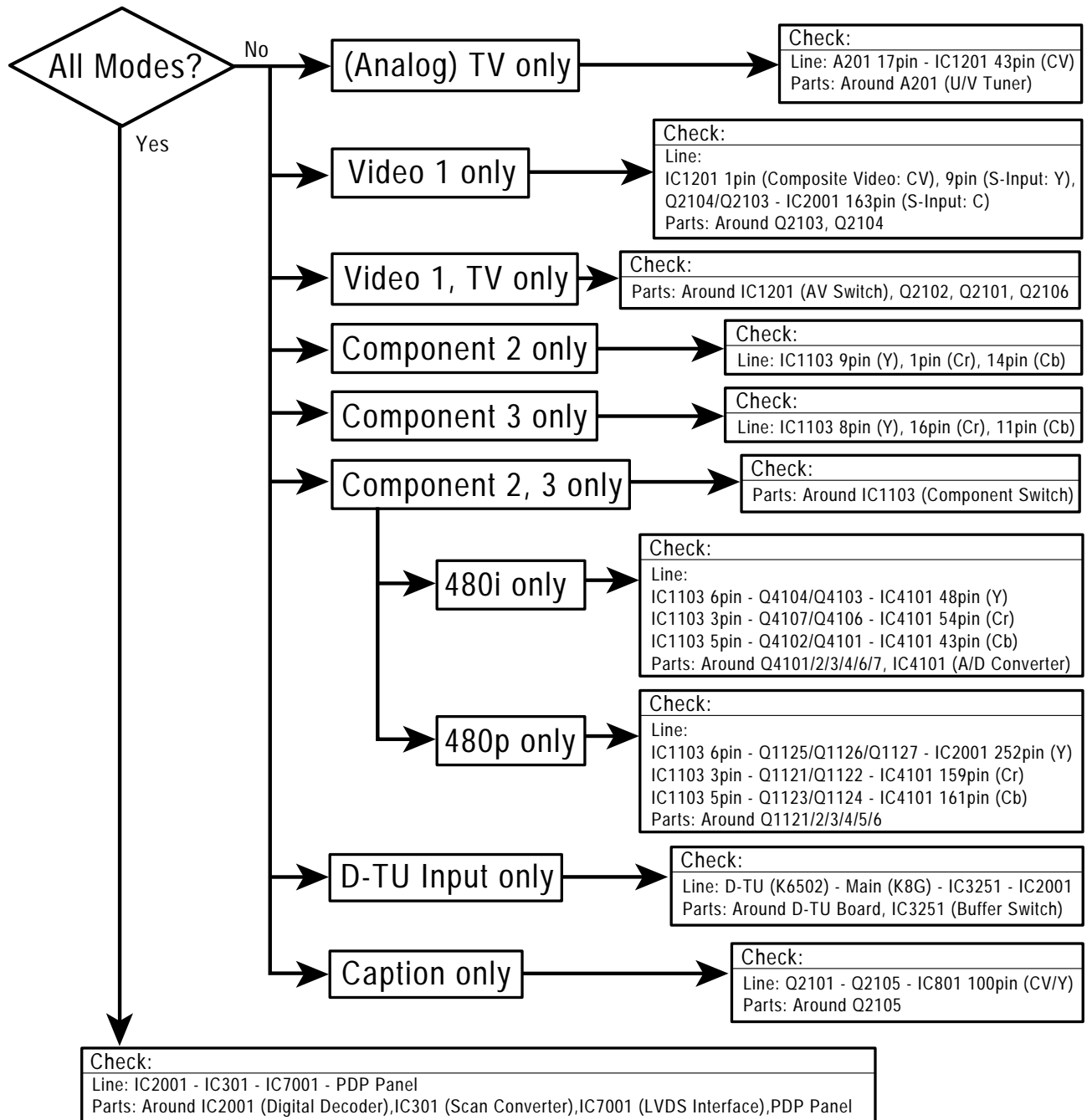


TROUBLESHOOTING FLOW CHARTS (Cont.)

NO AUDIO



NO VIDEO



CONTROL PORT FUNCTIONS

System Control (CPU : IC801)


Pin	Name	Function	I/O	Description
1	VHOLD	VHOLD at CAPTION	IN	CAPTION
2	HLF	HLF at CAPTION	IN	CAPTION
3	DA1/SCL3/RXD2	IIC SCL	OUT	IIC Bus SCL (Tuner, Audio Control, AV SW)
4	DA0/SDA3/TXD2	IIC SDA	I/O	IIC Bus SDA (Tuner, Audio Control, AV SW)
5	TB2IN/DIGR0	OSD RED 0	OUT	OSD Output Red (Low level)
6	P91/TB1IN	–	–	Not used
7	P90/TB0IN	PWR SW IN	IN	Power ON/OFF Detect, Switch On : Low
8	BYTE	BYTE	IN	3.3V Pull Up
9	CNVss		IN	Normal : Low, Writing to Flash Memory : High
10	Xcin/DIGG0	OSD GREEN 0	OUT	OSD Output Green (Low level)
11	Xcout/DIGB0	OSD BLUE 0	OUT	OSD Output Blue (Low level)
12	RESET	RESET 3.3V	IN	Normal : 3.3V, Writing to Flash Memory : Low -> 3.3V
13	Xout			Main Clock Output
14	Vss	GND		GND
15	Xin			Main Clock Input
16	Vcc	3.3V		3.3V
17	OSC1/OSCHLF	OSD_CLK_IN	IN	OSD Clock Input
18	OSC2		OUT	Not used
19	P83/INT1	RC	IN	RC Input
20	P82/INT0		OUT	Not used
21	OUT1	OSD_BLK	OUT	OSD Blanking Output
22	OUT2	OSD-HALF	OUT	OSD Half Tone Output
23	P77/HC1		OUT	Not used
24	P76/TA3OUT	FAN CONTROL	PWM	Not used
25	P75/HC0		IN	Not used
26	P74/TA2out		OUT	Not used
27	P73/CTS2/RTS2	NV MEMORY SW	OUT	NV Memory Access : High
28	P72/SCL2/CLK2	IIC SCL/SCLK	OUT	IIC Bus SCL (Panel, Decoder, Scaler, A/D Converter)
29	P71/SCL1/RXD2	IIC SCL	I/O	IIC Bus SCL (N.V., Factory PC)
30	P70/SDA1/TXD2	IIC SDA	OUT	IIC Bus SDA (N.V., Factory PC)
31	P67/SDA2	IIC SDA/SDATA	I/O	IIC Bus SDA (Panel, Decoder, Scaler, A/D Converter)
32	R/DIGR1	OSD RED output	OUT	OSD Output Red (Middle level)
33	G/DIGR1	OSD GREEN output	OUT	OSD Output Green (Middle level)
34	B/DIGR1	OSD BLUE output	OUT	OSD Output Blue (Middle level)
35	P63/TxD0	DM SOUT/TXD	OUT	Serial Output to US Digital, For writing to Flash Memory
36	P62/RxD0	DM SIN/RXD	IN	Serial Input to US Digital, For writing to Flash Memory
37	P61/CLK0	DM CLK/SCLK	IN	Serial Clock from US Digital, For writing to Flash Memory
38	P60/CTS0/RTS0	BUSY	OUT	For writing to Flash Memory
39	P57/RDY/CLKout		IN	Not used
40	P56/ALE	STATUS	IN	For factory Status
41	P55/HOLD	PULL-DOWN GND		Pull down to Ground, For writing to EPM Flash Memory
42	P54/HLDA	DM_OUT	OUT	Digital Module Output (CS)
43	P53/BCLK	AV SW4	OUT	AV SW4
44	P52/RD	AV SW3	OUT	AV SW3
45	P51/WRH/BHE		OUT	Not used
46	P50/WRL/WR/CE	Clip Enable	OUT	Chip Select for writing to Flash Memory
47	P47/CS3	AV SW2	OUT	AV SW2
48	P46/CS2	LVDS SW	OUT	LVDS SW
49	P45/CS1	PWR_GO	OUT	Power Control TV-GO, Power ON : High
50	P44/CS0		OUT	Not used

Pin	Name	Function	I/O	Description
51	P43/A19	DIG_GO	OUT	Power Control Digital-GO, Digital ON : High
52	P42/A18	P-FAIL1	IN	Power Failure (Main), Failure : Low
53	P41/A17	P-FAIL2	IN	Power Failure (Audio AMP), Failure : High
54	P40/A16	P-FAIL3	IN	Power Failure (Digital), Failure : Low
55	P37/A15	FAN_LOCK	IN	Fan Lock Input
56	P36/A14	LINE_OFF	IN	Line OFF Input (AC Detect)
57	P35/A13	THEM_DET	IN	Temperature Detect, Failure : High
58	P34/A12	TC_RESET	OUT	IC (TC90288) Reset Output
59	P33/A11	DM_RESET	OUT	DM Reset Output
60	P32/A10	PANEL_READY	IN	Permission for communication to Panel
61	P31/A9	PANEL/DM_RESET	IN	Request of Panel and DM Reset
62	HSYNC	Hsync	IN	OSD Hsync Input
63	P30/A8	RESERVED OPTION	OUT	Option (Reserved)
64	VSYNC	Vsync	IN	OSD Vsync Input
65	P27/A7		OUT	Not used
66	P26/A6		OUT	Not used
67	P25/A5		OUT	Not used
68	P24/A4		OUT	Not used
69	P23/A3		OUT	Not used
70	P22/A2		OUT	Not used
71	P21/A1		OUT	Not used
72	P20/A0		OUT	Not used
73	P17/D15	AMP_MUTE	OUT	Audio AMP Mute, Mute : High
74	P16/D14	M_MUTE	OUT	Monitor Mute, Mute : High
75	P15/D13		IN	Not used
76	P14/D12	S_DETECT	IN	Detecting of S-input
77	P13/D11		IN	Not used
78	P12/D10		OUT	Not used
79	P11/D9		OUT	Not used
80	P10/D8		OUT	Not used
81	P07/D7		OUT	Not used
82	P06/D6	POWER_LED (G)	OUT	Power LED (Green), LED ON : High
83	P5/D5	OSD_SW	OUT	OSD Information, OSD ON : High
84	P04/D4		OUT	Not used
85	P03/D3	TC CORRECT	OUT	Correction of D2, Correction ON : Low
86	P02/D2		OUT	Not used
87	P01/D1		OUT	Not used
88	P00/D0		OUT	Not used
89	P107/AN5/DIGR2	OSD RED 2	OUT	OSD Output Red (High level)
90	P106/AN4/DIGG2	OSD GREEN 2	OUT	OSD Output Green (High level)
91	P107/AN3/DIGB2	OSD BLUE 2	OUT	OSD Output Blue (High level)
92	P104/AN2	SENSOR	IN	Sensor Input
93	P103/AN1	AFT-IN	IN	AFT S-Input
94	P102/AN0	KEY-IN	IN	Key Input
95	VHOLD2		OUT	Not used
96	HLF2		I/O	Not used
97	CVIN2		IN	Not used
98	TVSETB	GND		Ground
99	VCCE	5V		5V
100	CVIN1	CAPTION	IN	Composite Video Signal Input

For parts or service contact
SANYO Fisher Service Corporation
21605 Plummer Street
Chatsworth, CA 91311 (U.S.A.)
300 Applewood Crescent,
Concord, Ontario L4K 5C7 (CANADA)

SCHEMATIC DIAGRAMS

NOTES ON SCHEMATIC DIAGRAMS

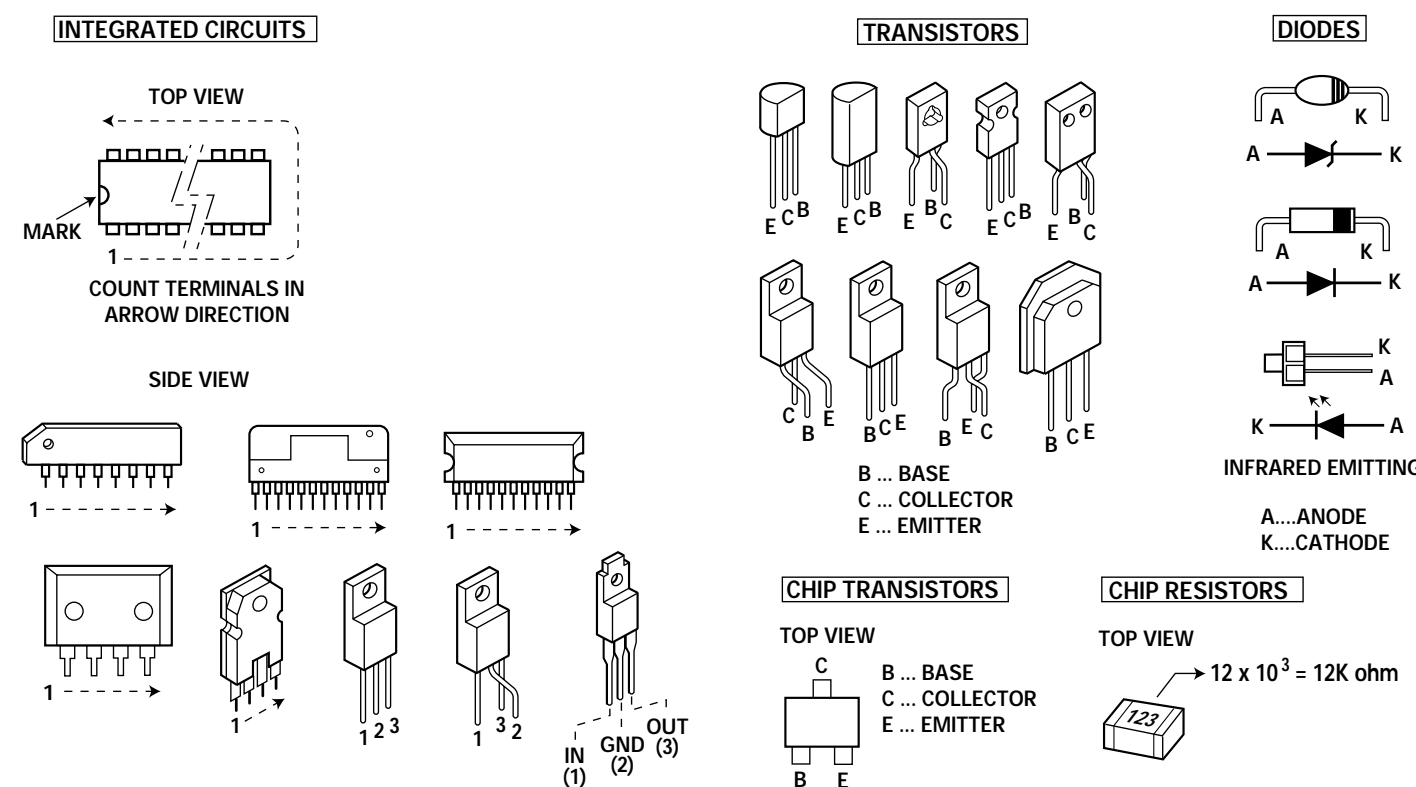
1. All resistance values in ohms $K=1,000$ $M=1,000,000$.
2. Unless otherwise noted on schematic, all capacitor values less than 1 are expressed in μF (Micro Farad), and the values more than 1 are in pF.
3. Unless otherwise noted on schematic, voltage reading taken from VOM from point indicated to chassis ground. Voltage reading taken using color-bar signal VHF channel 5, all controls at normal. Line voltage at 120 volts. Some voltages may vary with signal strength.
4. Waveforms were taken with color-bar signal and controls set for normal picture. Waveforms marked with an * may vary with signal strength.
5. The Symbol  indicates a fusible resistor, which protects the circuit from possible short circuits.

SERVICE NOTES:

1. When replacing parts on circuit boards, clamp the lead wires to terminals before soldering.
2. When replacing high wattage resistors on circuit board, keep the resistor body 10 mm (3/8) from circuit board.
3. Keep wires away from high voltage and high temperature components.

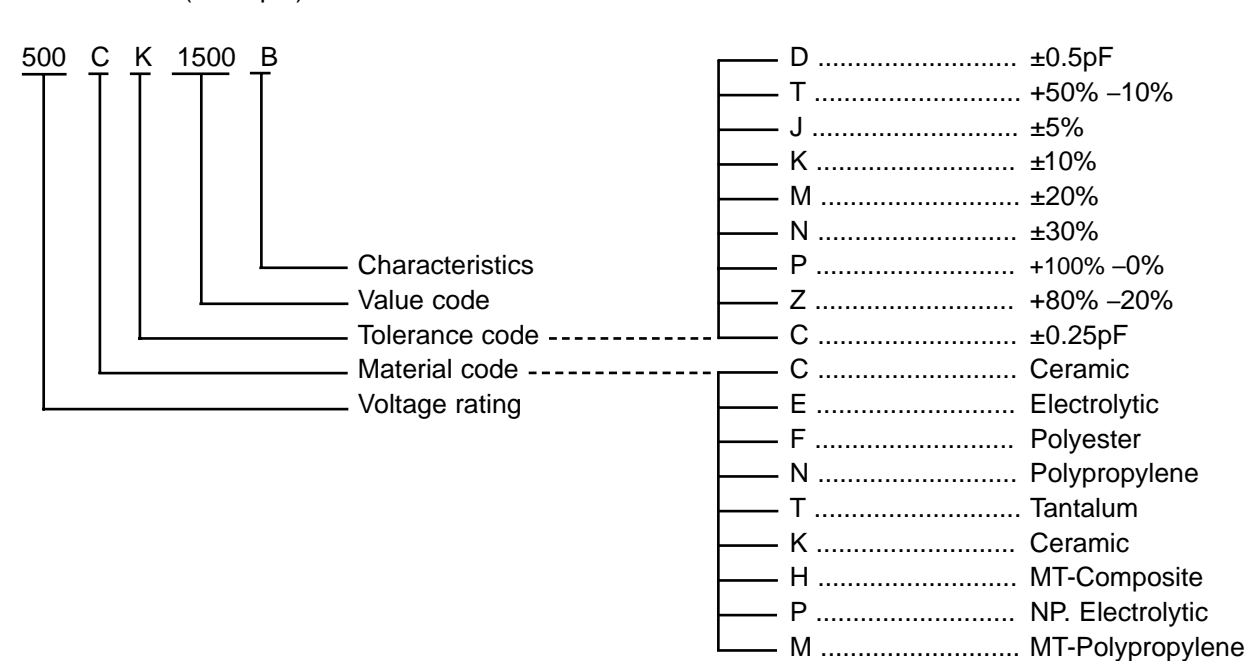
PRODUCT SAFETY NOTICE

THE COMPONENTS DESIGNATED BY A STAR (*) ON THIS SCHEMATIC DIAGRAM DESIGNATE COMPONENTS WHOSE VALUES ARE OF SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. SHOULD ANY COMPONENT DESIGNATED BY A STAR NEED TO BE REPLACED, USE ONLY THE PART DESIGNATED IN THE PARTS LIST. DO NOT DEVIATE FROM THE RESISTANCE, WATTAGE AND VOLTAGE RATINGS SHOWN.

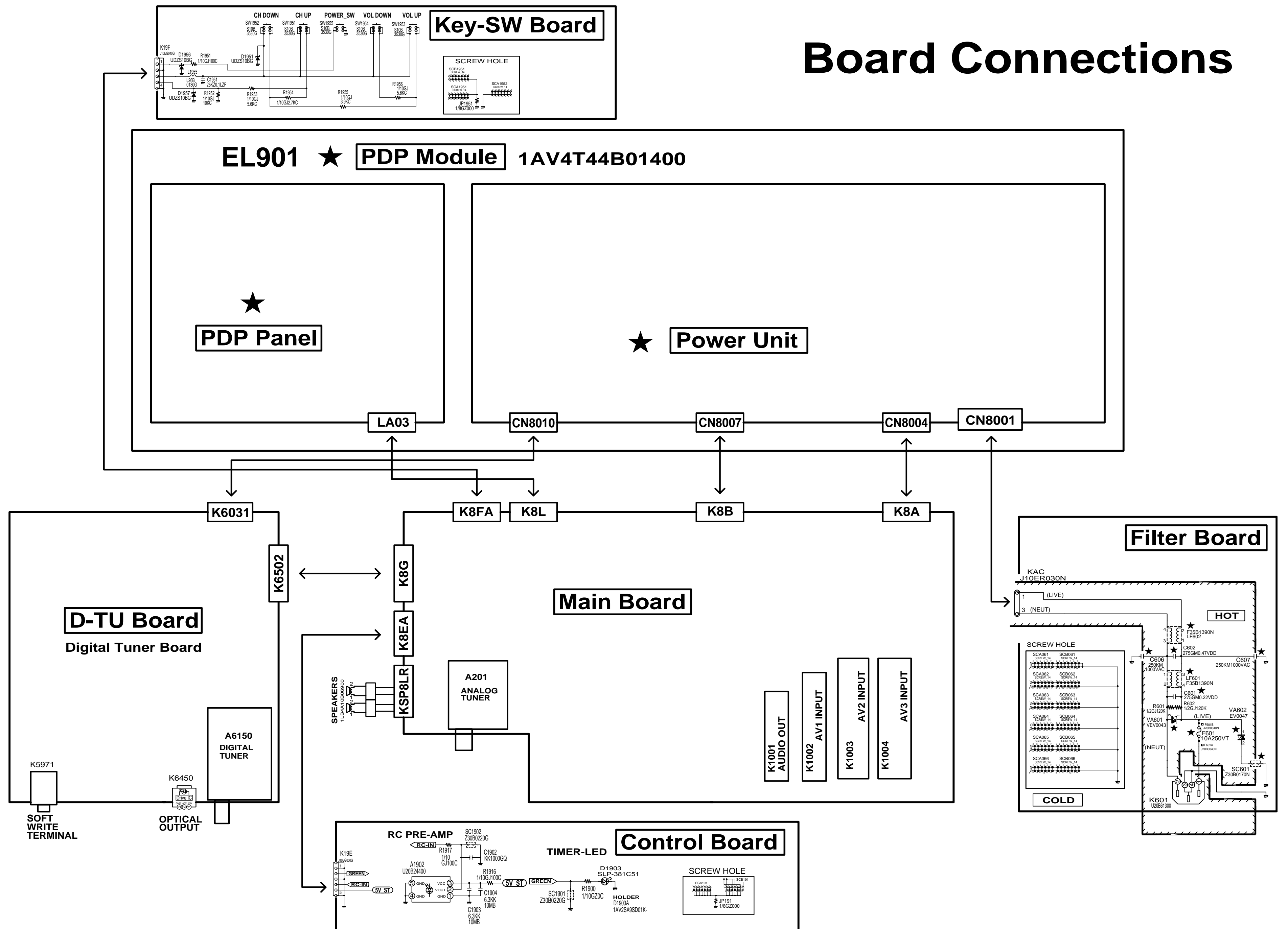
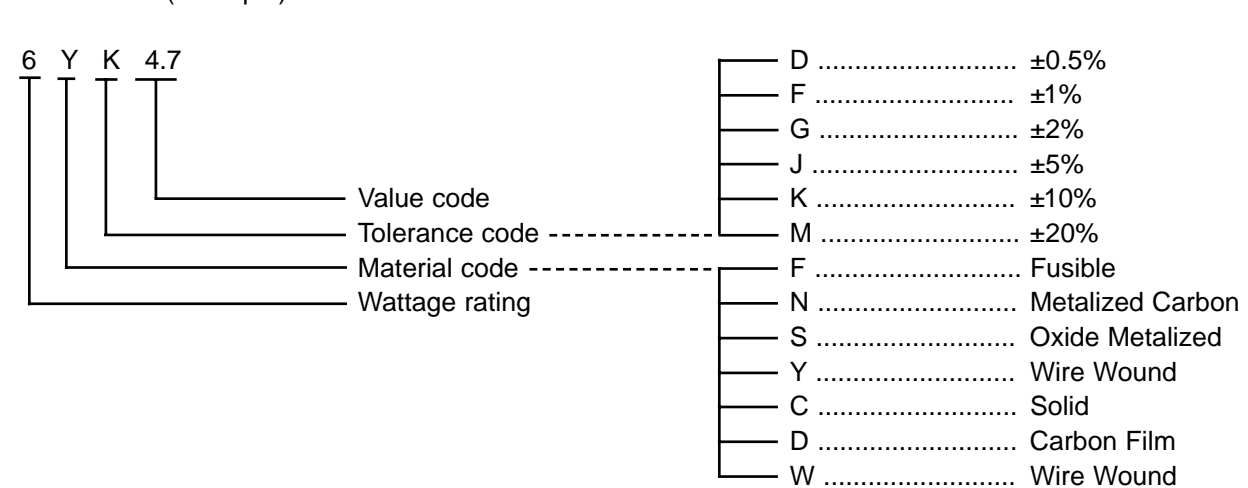


CAPACITOR AND RESISTOR CODE CHART

CAPACITOR (Example)



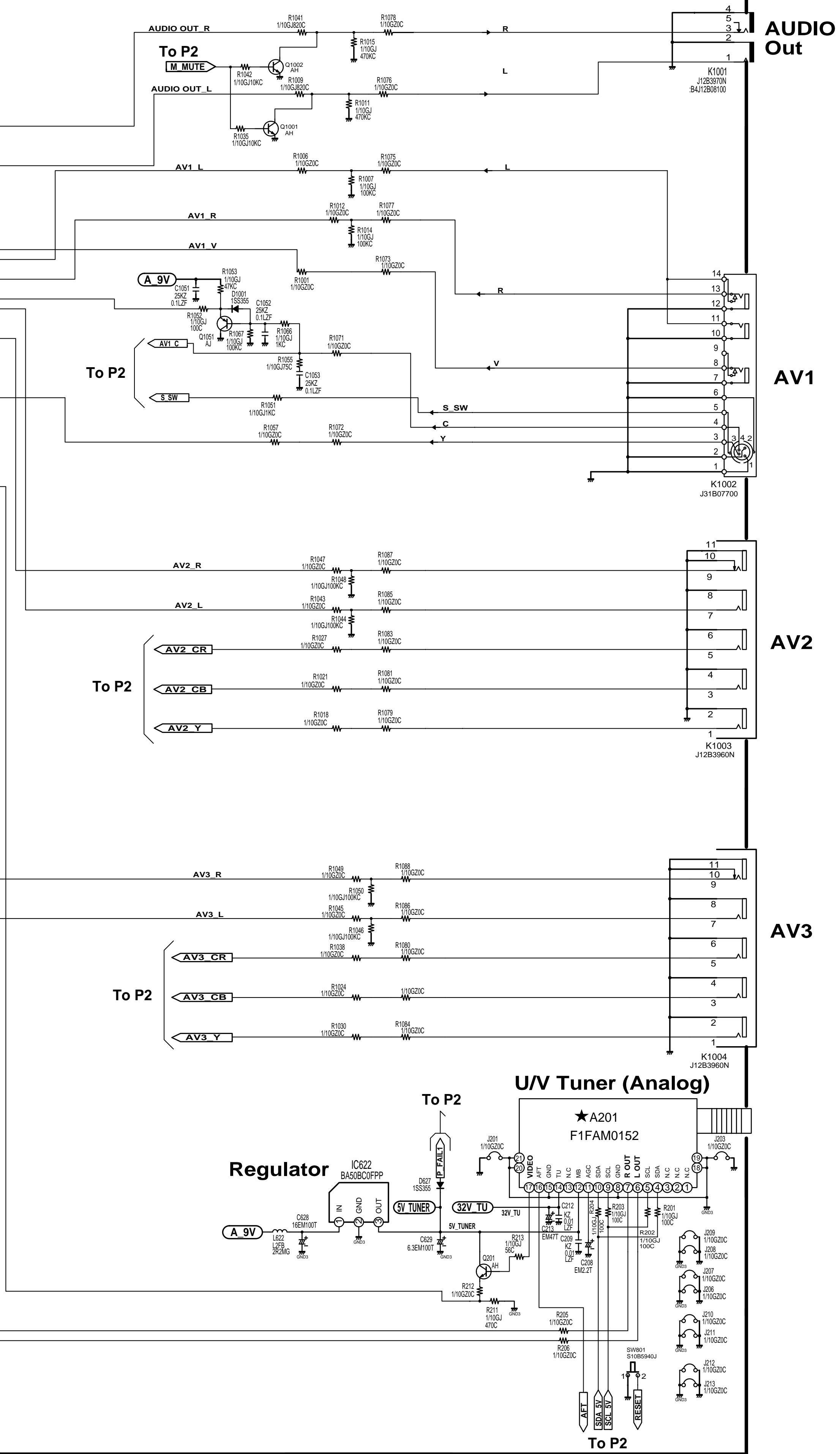
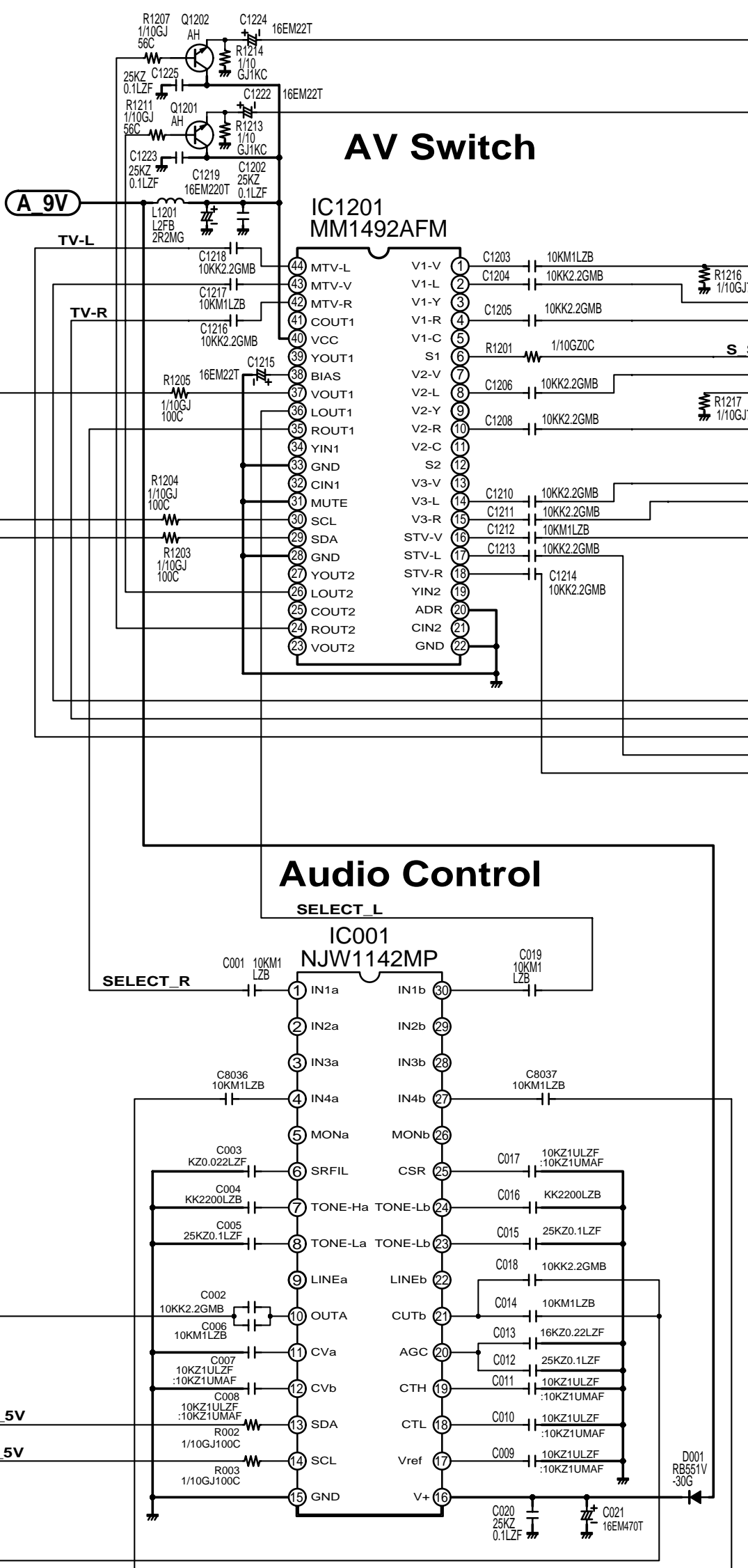
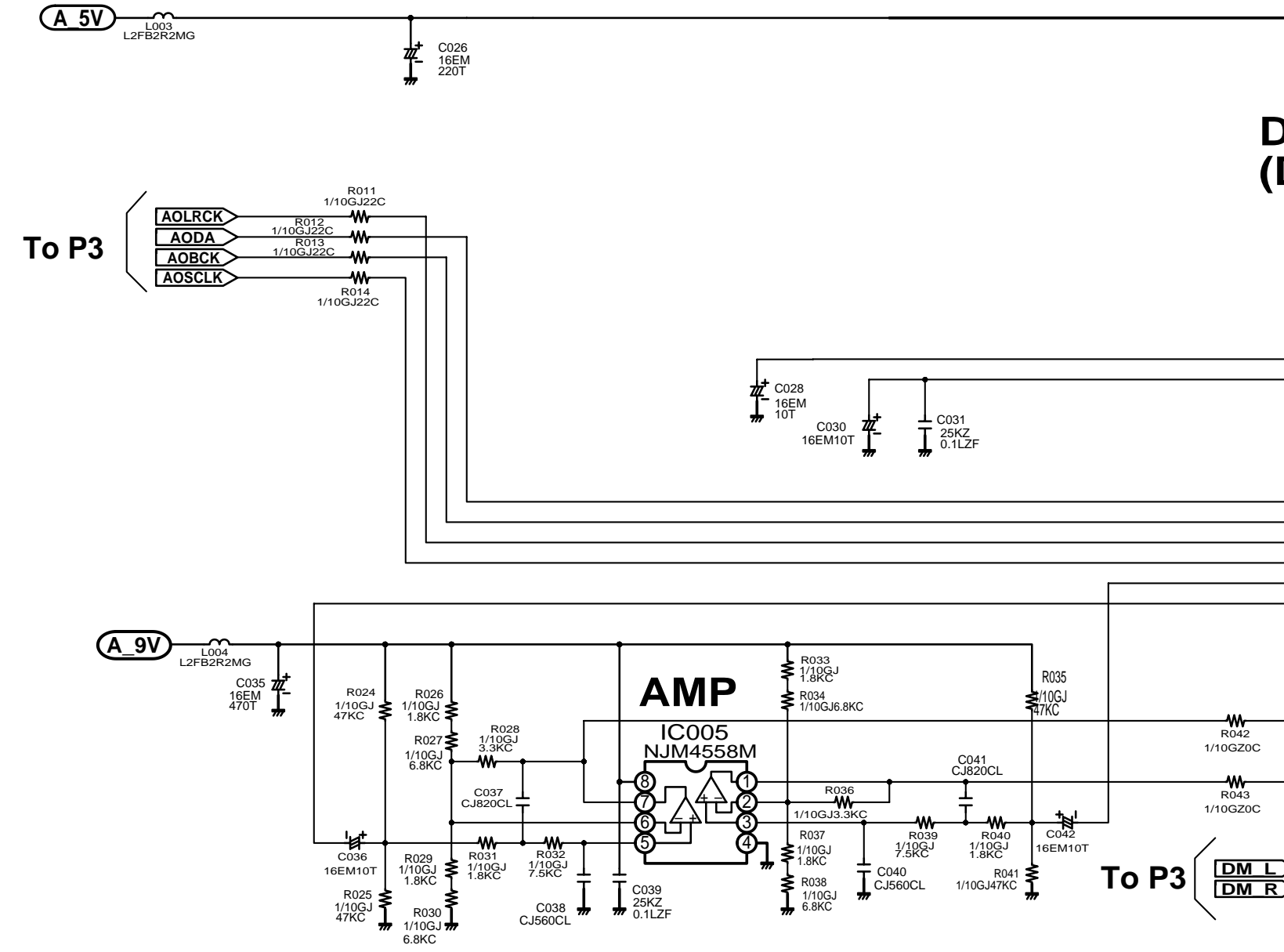
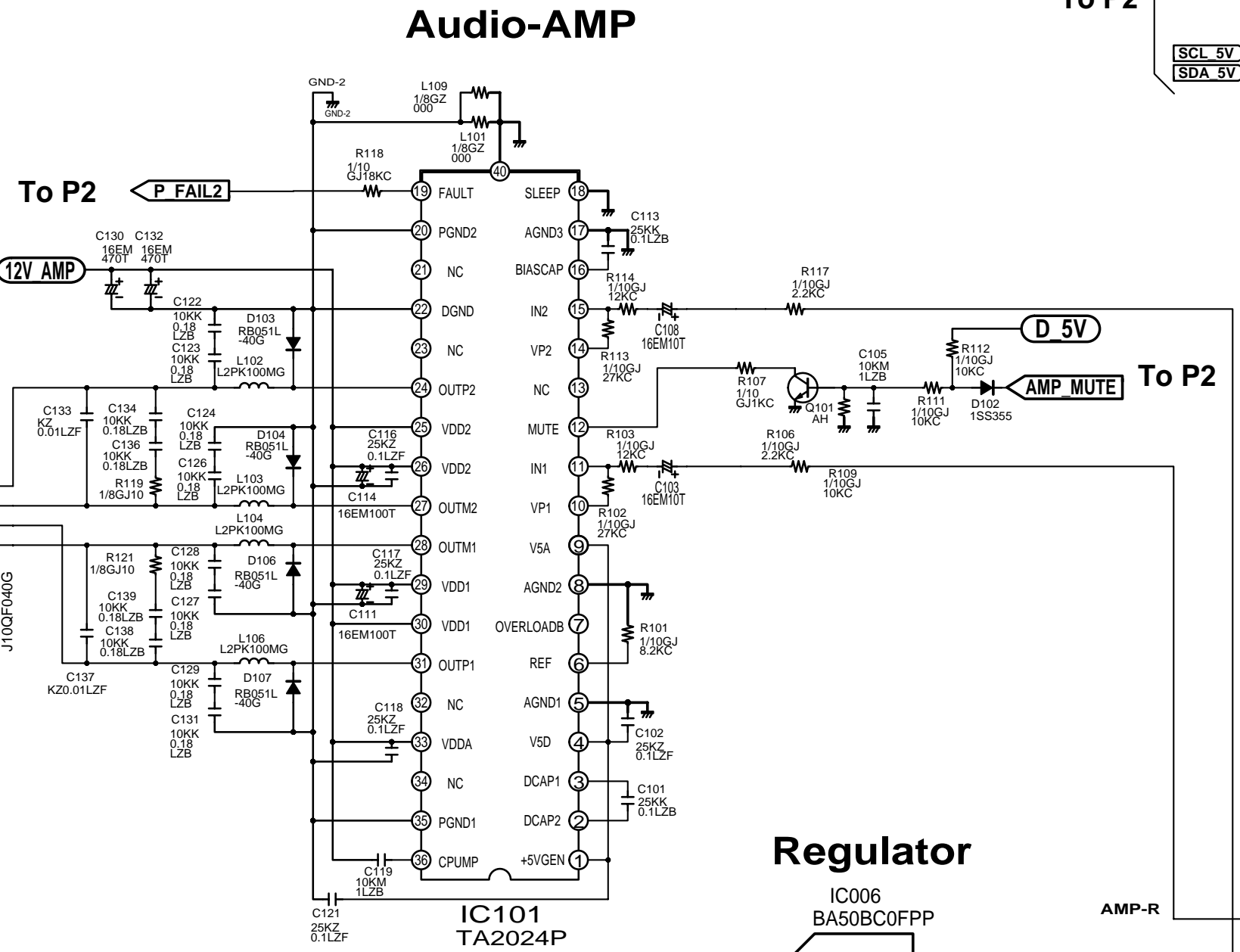
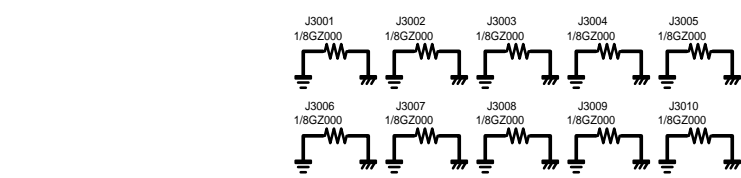
RESISTOR (Example)



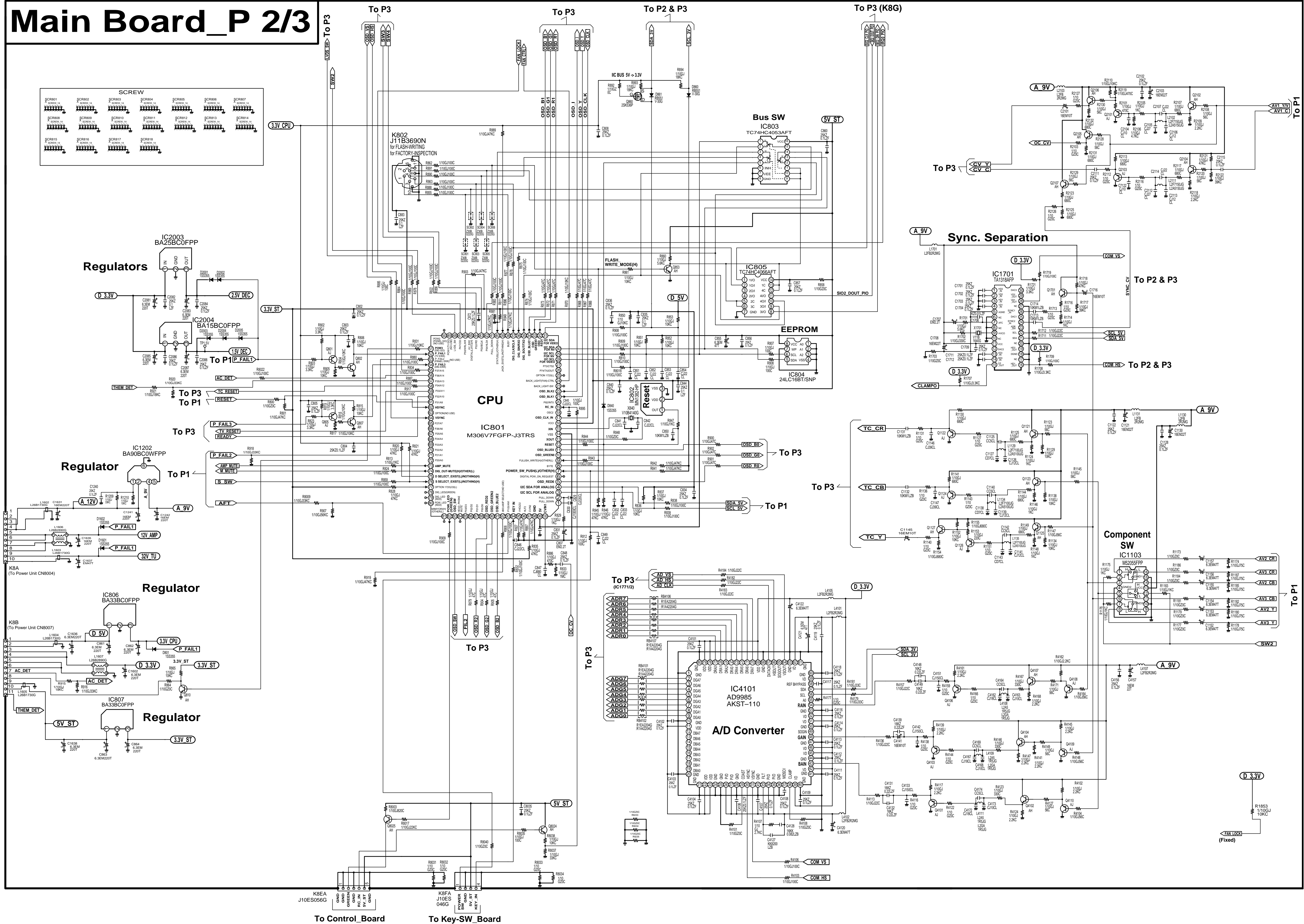
Board Connections

Main Board_P 1/3

To Speakers



Main Board_P 2/3



Main Board_P 3/3

